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1.257 zlib 1.2.11.dfsg-2ubuntu1.2
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1.258 javax-ws-rs-api 2.1
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1.259 rgbcolor 1.4 on 23 Feb 2006
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1.260 gdb 8.2-15.el8
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1.261 libtasn 4.13 3.el8
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1.263 open-iscsi 2.0.874-7.1ubuntu6
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1.264 snake-yaml 1.23
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1.267 system-text-encodings-web 5.0.0.0
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1.289 logstash-integration-rabbitmq 7.3.0
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1.323 cabin 0.9.0  
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine
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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.4 rng-tools 6.8 3.el8

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.11 units 0.0.0-20210912230133-d1bdfacee922

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1.12 ply 3.9

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PLY (Python Lex-Yacc) Version 3.9

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Introduction
============

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

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems.
Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

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

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

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

```python
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

Requirements
=============

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

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

http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

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

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

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

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

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

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

    #(calc.py)

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


# A simple calculator with variables.
# tokenizer

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

# Tokens

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

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

# Ignored characters

t_ignore = " \t"

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

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

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

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

---

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

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

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

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

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

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

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

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

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

import ply.yacc as yacc
yacc.yacc()

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

Bug Reports and Patches

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

-- Dave

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1.13 jackson-dataformat-yaml 2.9.10

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1.17 spring-security-core 5.4.2

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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/cryptopassword/DelegatingPasswordEncoder.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/core/Transient.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/jackson2/UnmodifiableListMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/authentication/DelegatingUserDetailsPasswordService.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java

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  jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/CoreJackson2Module.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/UserMixin.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java

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*/
/**
* A token issued by {@link TokenService}.
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* { @link TokenService } are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.

* @author Ben Alex
* @since 2.0.1

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* */
/**
* Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the <code>Object</code> or throw an { @link AccessDeniedException }. 
* 
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean. Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
* 
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* */
* @author Ben Alex
*/

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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java
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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-jar/org/springframework/security/core/authority/AuthorityUtils.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-jar/org/springframework/security/access/prepost/PostInvocationAuthorizationAdvice.java
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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-jar/org/springframework/security/provisioning/MutableUser.java
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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
jar/org/springframework/security/core/token/DefaultToken.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
jar/org/springframework/security/access/intercept/aspectj/AspectJMethodSecurityInterceptor.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
jar/org/springframework/security/access/prepost/PreInvocationAttribute.java
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jar/org/springframework/security/core/session/package-info.java
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  jar/org/springframework/security/crypto/argon2/Argon2PasswordEncoder.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/core/token/SecureRandomFactoryBean.java
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  jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
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  jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
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  jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
  jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
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 */

/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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*/
/**  
* Base64 encoder which is a reduced version of Robert Harder's public domain  
* implementation (version 2.3.7). See <a href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/</a>  
* for more information.  
* For internal use only.  
*  
* @author Luke Taylor  
* @since 3.0  
* @deprecated Use java.util.Base64
*/

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*/
/**
* Determines if the {@link #getAuthentication()} has permission to access the target  
* given the permission  
* @param target the target domain object to check permission on  
* @param permission the permission to check on the domain object (i.e. "read",  
* "write", etc).
* @return true if permission is granted to the [@link #getAuthentication()], else
* false
*/

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jar/org/springframework/security/authentication/DefaultAuthenticationEventPublisher.java
* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2-
jar/org/springframework/security/core/session/SessionCreationEvent.java
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jar/org/springframework/security/core/session/AbstractSessionEvent.java
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* /opt/cola/permits/1175309100_1624359054.57/0/spring-security-core-5-4-2-sources-2.jar/org/springframework/security/jackson2/UserDeserializer.java
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1.18 rchardet 1.8.0

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1.19 clockwork 0.2.2

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Clockwork - a clock process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker
processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart
-----------

Create clock.rb:

    require 'clockwork'
    include Clockwork

    handler do [job]
        puts "Running #{job}"
    end

    every(10.seconds, 'frequent.job')
    every(3.minutes, 'less.frequent.job')
    every(1.hour, 'hourly.job')

    every(1.day, 'midnight.job', :at => '00:00')

Run it with the clockwork binary:

    $ clockwork clock.rb

Use with queueing
-----------------

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

    require 'stalker'
Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```ruby
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
-----------------------

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```ruby
handler { [job] Stalker.enqueue(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```ruby
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```ruby
every(5.minutes, 'thing.do') { Thing.send_later(:do) }
```
If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```ruby
every(1.day, 'check.leap.year') do
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production
----------

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

Design assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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1.20 apk-tools 2.10.5-r0
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1.21 jwt 2.3.0

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1.22 microsoft-management-infrastructure

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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package spec

import {
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
}

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}

func TestIntegrationLicense(t *testing.T) {


// const licenseYAML = "name: the name
url: the url\n"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}

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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"
    URL string `json:"url,omitempty"
}
// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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1.41 hashicorp-serf 0.9.5

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1.43 dhcp-server 4.3.6-41.el8
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

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

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===========================================================================
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 */

/**
 * Encodes and decodes to and from Base64 notation.
 *
 * <p>
 * Change Log:
 * </p>
 * <ul>
 * <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
 * for reading
 * and writing to and from files.</li>
 * <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
 * EBCDIC).</li>
 * <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
 * <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
 * The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.
 * Generally things are cleaner. You'll probably have to change some method calls that you were making to support
 * the new options format (\<tt\>int</tt>\ s that you "OR" together).</li>
 * <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using
 * \<tt\>decode(String s, boolean gzipCompressed)</tt>. Added the ability to "suspend" encoding in the Output
 * Stream
 * so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an
 * XML.
 */
* v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.

* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.

* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.

* v1.3.3 - Fixed I/O streams which were totally messed up.

* <ul>
* </ul>

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* @author Robert Harder

* @author rob@iharder.net

* @version 2.1

*/

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 * /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2.jar/org/opensaml/xml/signature/PgpCounter.java
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Schema for XML Signatures

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Note: If you've sent us patches, bug reports, or otherwise contributed to
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File: PSReadLine
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https://github.com/Izybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.67 pyyaml 3.12 12.el8
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine
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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Contact: mario@quasimondo.com
Website: http://www.quasimondo.com/StackBlurForCanvas
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* /opt/cola/permits/1111517243_1611905741.93/0/stackblur-js-2-zip/StackBlur.js

1.83 python3-sssdconfig 2.2.3-20.el8

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1.86 python3-idna 2.5-5.el8

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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library, but only supports the

Basic functions are simply executed:

.. 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 2.6 or later, and Python 3.3 or later.

**Usage**

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

   # Python 3
   >>> import idna
   >>> idna.encode('.')
   b'xn--eckwd4c7c.xn--zckzah'
   >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
   .

You may use the codec encoding and decoding methods using the ``idna.codec`` module:

.. code-block:: pycon

   # Python 2
   >>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.

Conversions can be applied at a per-label basis using the `u'label` or `a'label` 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.

.. code-block:: pycon

    # 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.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

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. IDNA); 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.)

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

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---

import io, sys
from setuptools import setup

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': 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',
    
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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedIterable.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/GwtTransient.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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jar/com/google/common/base/SmallCharMatcher.java
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*/

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 * and released to the public domain, as explained at 
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's 
 * java.util.HashMap class.
 */

Found in path(s):
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/Striped.java

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 */

/**
 * Holder for extra methods of { @code Objects} only in web. Intended to be empty for regular 
 * version.
 */

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jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Absent.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/net/HttpHeaders.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
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jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/FluentIterable.java
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Flops.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/net/InetAddresses.java
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jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/io/FileBackedOutputStream.java

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* */
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
* */

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/collection/JdkBackedImmutableMap.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedMultiset.java

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 */

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/JdkPattern.java
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jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/FinalizableSoftReference.java
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jar/com/google/common/collect/Interners.java
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jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
jar/com/google/common/base/FinalizableReference.java
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jar/com/google/common/base/Charsets.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/ByteSource.java
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-[@code Comparable]
 * key.</b> Proper calls will resolve to the version in {[@code ImmutableSortedMap], not this dummy
 * version.
@throws UnsupportedOperationException always
@deprecated Pass a key of type `{code Comparable}` to use `{link ImmutableSortedMap#of(Comparable, Object)}`.
*/

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1.94 redhat-logos 81.1-1.el8

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

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

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

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

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  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslX509TrustManager.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
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  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
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  jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
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  jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
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* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-jar/io/netty/handler/pcap/PcapWriter.java
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  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1337322636_1654191400.5696135/0/netty-handler-4-1-66-final-sources-2-
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

^L

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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DAMAGES.

^L

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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This library 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 Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as
Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- 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=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license=20 change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the=20 applications are also GPL-2 which imo is just wrong. it isnt the place of =20 library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> 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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> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
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> > unlike the old license, GPL-2 prevents people from using cracklib
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Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  1357

> 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
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
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.
> >> by me.
> >>
> >> I am sympathetic. Guys, what do you reckon?
> >
> >> What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the...
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> > In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
> 
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.1.192]) 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 I91Gxtpr00623
    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 2C7734D31
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with essmtp (Exim 4.50)
    id 11cOcX-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>
    <EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@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
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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Attachments: Message as HTML
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Nathan Neulinger
EMail: nneul@um...</蒿
University of Missouri - Rolla
Phone: (573) 341-6679
UMR Information Technology
Fax: (573) 341-4216

> -----Original Message-----
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library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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 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 their applications are also GPL-2 which imo is just wrong. it isnt the place of a library to dictact to application writes what license they should be using.
> thus LGPL-2.1 enters to fill this void.
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >>
> > I am sympathetic. Guys, what do you reckon?
> >>
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Fryssinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
>> >> In any case, I thank you both for working on sorting this out.
>> 
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMPTPSVC(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 SMPTPSVC(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 I91Gxtp020623
   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-56FBEFEBE6E9F@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

1.101 system-xml-xdocument 5.0.0.0
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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1.103 man-pages-overrides 8.2.0.2-1.el8

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1.104 maven-antrun-plugin 1.2

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershell-built-in-h
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PackageManagement

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1.109 libxi 1.7.10-1.el8

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1.113 xorm.io-builder 0.3.6

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving
the generic code are due to Walter Underwood.
Robert Buzak (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
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Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clair.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

--- end ---

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[/mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:
:toc-title:
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The header `</boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `</boost/mp11.hpp>`.
1.116 v1-gonum 0.9.1

1.116.1 Available under license:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number.
Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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References:
T. Nishimura, "Tables of 64-bit Mersenne Twisters"
ACM Transactions on Modeling and
M. Matsumoto and T. Nishimura,
"Mersenne Twister: a 623-dimensionally equidistributed
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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1.122 nghttp2 1.33.0 3.el8_2.1

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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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1.123 iptables 1.8.4-17.el8

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1.126 python3-asn1crypto 0.24.0-1.ph3

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Protocol Buffers for Go with Gadgets

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tomb - support for clean goroutine termination in Go.

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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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with the Library, with the complete machine-readable "work that
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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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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/package-info.java
* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
* /opt/cola/permits/1212202758_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/StatusProto.java

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  jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
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  jar/io/grpc/protobuf/ProtoUtils.java

1.131 cmath 1.0.0
1.131.1 Available under license:

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1.132 activation 1.1.1

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* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/com/sun/activation/registries/LogSupport.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/FileDataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/FileTypeMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/ActivationDataFlavor.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/MailcapCommandMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/MimetypesFileTypeMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/CommandMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/com/sun/activation/registries/MailcapTokenizer.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/com/sun/activation/viewers/TextEditor.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/DataContentHandlerFactory.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/com/sun/activation/registries/MimeTypeEntry.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/DataHandler.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/CommandObject.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/MimeType.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/javax/activation/DataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
  jar/com/sun/activation/viewers/ImageViewer.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/MimeTypeParseException.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/UnsupportedDataTypeException.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/CommandInfo.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/SecuritySupport.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/URLDataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/registries/MimeTypeFile.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/viewers/ImageViewerCanvas.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/registries/MailcapParseException.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/registries/MailcapFile.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/MimeTypeParameterList.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/javax/activation/DataContentHandler.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-
jar/com/sun/activation/viewers/TextViewer.java

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@(#)package.html1.2 07/05/14

-->

Found in path(s):
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/package.html

1.133 traceroute 2.1.0 6.el8
1.133.1 Available under license :

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package compute_test

import (
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

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.
    }
}
func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    return
  }
  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.
    return
  }
  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.
  }
  it := c.List(ctx, req)
  for {
    resp, err := it.Next()
    if err == iterator.Done {
      break
    }
    if err != nil {
      // TODO: Handle error.
    }
  }
}
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
    }

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (  "context"  "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.
    }
  defer 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.
    }
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#TestIamPermissionsLicenseCodeRequ
        // est.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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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"
    computepb "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 {
// 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.TestIamPermissionsTestPermissionsResponse, 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()
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/")
    }
}

// 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", 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 {
    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)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%s/global/licenseCodes/%s", req.GetProject(),
    req.GetLicenseCode())

    if err != nil {
        return nil, err
    }

    // setGoogleClientInfo is called here in order to ensure that
    // the `x-goog-api-client` header passed on each request. Intended for
    // use by Google-written clients.
    c.setGoogleClientInfo()

    httpReq.Header.Set("User-Agent", c.userAgent()

    resp, err := http.DefaultClient.Do(httpReq)
    if err != nil {
        return nil, err
    }

    defer resp.Body.Close()
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
}
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{}

return rsp, unm.Unmarshal(buf, rsp)

// 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.TestIamPermissionsResponse, 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
    }

    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.LicenseCode{}

    return rsp, unm.Unmarshal(buf, rsp)
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
}
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.TestPermissionsResponse{

return rsp, unm.Unmarshal(buf, rsp)

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//
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import {
    "bytes"
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.TestPermissionsResponse, 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.
}
c.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 = 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 {
// 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{
    }

    return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &compute pb. Operation[]

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, 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) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    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 := &computepb.Policy{
        // 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.
    }
    return rsp, unm.Unmarshal(buf, rsp)
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 = 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
    }
    return rsp, unm.Unmarshal(buf, rsp)
}

// 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.
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, 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.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
        req.PageToken = proto.String(pageToken)
    }
    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 {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    buf, err := json.Marshal(req)
    if err != nil {
        return nil, errors.Wrapf(err, "failed to serialize request")
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicensesListResponse{}
    if err := unm.Unmarshal(buf, resp); err != nil {
        return nil, err
    }
    it := &LicenseIterator{
        licenses: resp.Licenses, count: int64(len(resp.Licenses)), nextPageToken: resp.NextPageToken,
        pageToken: req.PageToken
    }
    it.currentChunk = it.nextPageToken
    return it, nil
}
    req.PageToken = proto.String(pageToken)

    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    buf, err := json.Marshal(req)
    if err != nil {
        return nil, errors.Wrapf(err, "failed to serialize request")
    }
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicensesListResponse{}
    if err := unm.Unmarshal(buf, resp); err != nil {
        return nil, err
    }
    it := &LicenseIterator{
        licenses: resp.Licenses, count: int64(len(resp.Licenses)), nextPageToken: resp.NextPageToken,
        pageToken: req.PageToken
    }
    it.currentChunk = it.nextPageToken
    return it, nil
}
if req != nil && req.ReturnPartialSuccess != nil {
}

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
}
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.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())
// 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)
    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.Policy{
        ...
// 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)

  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.TestPermissionsResponse{ }
// 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{} {
    b := it.items
    it.items = nil
    return b
}
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mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
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Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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

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Protocol Buffers for Go with Gadgets

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* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational    M. Bellare
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February 1997

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1.177 ghodss-yaml v1.0.0

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1.178 xml2json 1.2.0

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Found in path(s):
* /opt/cola/permits/1180062354_1626310656.26/0/xml2json-js-2-zip/xml2json.js
1.179 rpm 4.14.3-13.el8

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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1.180 libssh2 1.9.0

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1.181 mariadb 3.1.11-2.el8_3
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The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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For an executable, the required form of the "work that uses the
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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*/
/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 *
 * <p>This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's {@code MBeanServer}.
 *
 * <p>See the javadocs for WebSphere's

/com/ibm/websphere/management/AdminServiceFactory.html">{@code AdminServiceFactory}</a> and


* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/cache/support/CompositeCacheManager.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-
  jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/cache/annotation/Cacheable.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scheduling/config/ScheduledAnnotationSchedules.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/support/JndiJndiPropertySource.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/remoting/rmi/RmiClientInterceptorUtils.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/scripting/support/RemoteInvocationUtils.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/support/BeanDefinitionDsI.kt
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/annotation/ConfigurationClass.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/ApplicationEvent.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/cache/CacheManager.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/SmartLifecycle.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
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*/
/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 *
 * A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 *
 * The [@code @Conditional] annotation may be used in any of the following ways:
 *
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [@code @Component], including [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 * </ul>
 *
 * If a [@code @Configuration] class is marked with [@code @Conditional],
 * all of the [@code @Bean] methods, [@link Import @Import] annotations, and
 * [@link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [@code @Conditional] itself is not declared as
 * [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * [@code @Conditional] must not be declared as [@code @Inherited].
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/support/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/support/PeriodicTrigger.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/support/PostProcessorRegistrationDelegate.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/support/SimpleKey.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/support/SimpleField.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/support/CronField.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources.jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
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* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1116954219_1608102356.51/0/spring-context-5-3-2-sources-jar/org/springframework/context/ApplicationEventPublisherAware.java

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1.186 m3db-prometheus_remote_client_golang 0.4.4
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Additional -

---------------------------------------------
File: PSReadLine
---------------------------------------------

https://github.com/lzybkr/PSReadLine

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---------------------------------------------
File: Hashtables from ConvertFrom-json
---------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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1.190 binutils 2.30-108.el8

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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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1.191 golang-snappy

github.com/klauspost/compress v1.10.8

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1.192 go-hclog 0.12.2

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1.193 libgcc 8.3.1-5.el8
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include/GL/glxext.h
include/GL/wglxext.h :

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package compute

import ( // bytes"
"context"
"fmt"
"io/ioutil"
"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
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 

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, "gapi", c.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
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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

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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)

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

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package compute_test

import (
    "context"
    "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

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.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // 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.
  }
  defer 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.
}
def c.Close()

req := &compute.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"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/protobuf"
)

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.TestPermissionsResponse, 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...)
}
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
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/"),
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 *licensesRESTClient) 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 *licensesRESTClient) 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 *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
    }
    return
}
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
}
deferr 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
    } else {
        httpReq = httpReq.WithContext(ctx)
        // Set the headers
        for k, v := range c.xGoogMetadata {
            httpReq.Header[k] = v
        }
    }
    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
}
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.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 = httpReq.WithContext(ctx)
    // Set the headers

    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)
    }
    return rsp, nil

}
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)
}
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.
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 &
    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

// 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.License, string, error) {
resp := &computepb.LicensesListResponse{
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
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 {
params.Add("filter", fmt.Sprintf("%v", req.Filter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}
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
}
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.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 {

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)

    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.Policy{}
    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
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.TestPermissionsResponse{

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) ([]*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{} { b := it.items it.items = nil return b }

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^L
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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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1.213 python3-talloc 2.2.0-7.el8

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/*
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*/
1.214 snappy-java 1.1.0.1

1.215 buger-jsonparser 1.1.1

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1.216 pciutils 3.5.1

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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A. HISTORY OF THE SOFTWARE

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

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

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

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Introduction
============

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

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

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

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

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

```python
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

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

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

http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

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

http://groups.google.com/group/ply-hack
Acknowledgments
====================

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

The CHANGES file acknowledges those who have contributed patches.

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

Special Note for PLY-3.0
========================

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

Example
=======

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

```python
# calc.py
#
#
# A simple calculator with variables.
#

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

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

# Tokens

t_PLUS    = r'\+'
    t_MINUS   = r'-'
    t_TIMES   = r'\*'
    t_DIVIDE  = r'/'
    t_EQUALS  = r'='
    t_LPAREN  = r'(''
    t_RPAREN  = r')'
    t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]'
def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters
ignore = " 
"

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

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

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

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

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

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

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

def p_expression_binop(p):
    "expression : expression PLUS expression |
                 expression MINUS expression |
                 expression TIMES expression |
                 expression DIVIDE expression"
def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

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

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

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

def p_error(p):
    print("Syntax error at '%s'" % p[0].value)

import ply.yacc as yacc
yacc.yacc()

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

Bug Reports and Patches
========================

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

-- Dave

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mit.edu), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornal.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid `link:../../../../libs/mpl[MPL]` sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.228 pcsc-lite 1.8.23 3.el8

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Found in path(s):
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/tools/rmi/ObjectNotFoundException.java
1.234 apache-log4j 2.17.1

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1.235 patch 2.7.6 11.el8

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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"
    computepb "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.TestIamPermissionsResponse, 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/")
    }
}

// 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
    }
    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.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.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    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

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package compute_test

import (
  "context"

  compute "cloud.google.com/go/compute/apiv1"
  "google.golang.org/api/iterator"
  computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c

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.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // 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.
}  
defer 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"

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.TestPermissionsResponse, 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.

// 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/")
    }
}

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.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
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 = 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{
        ..
    }
    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 = 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.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.

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func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    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 := &computepb.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.
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 := &compute pb. Operation{}

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 *compute pb.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute pb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([1]*compute pb.License, string, error) {
        resp := &compute pb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        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 {
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
        }
        if req != nil && req.ReturnPartialSuccess != nil {
        }
        
        
        }
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
}
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.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()
// 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)

    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 {
        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, err
        }
        return rsp, nil
    }

    return nil, err
}
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 *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetTestIamPermissionsRequestResource()
  jsonReq, err := m.Marshal(body)
  if err != nil {
    return nil, err
  }
  return nil, err
}

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
}
delay 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

// 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{} {
    b := it.items
    it.items = nil
    return b
}

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identification within third-party archives.

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1.237 pcre 10.32 2.el8

1.237.1 Available under license :

PCRE2 LICENCE

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PCRE2 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 just-in-time compiler that can be used to
optimize pattern matching. This is an optional feature that can be omitted when
the library is built.

THE BASIC LIBRARY FUNCTIONS

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Additional  -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.247 libx11 1.6.8-5.el8

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 * 
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.258 javax-ws-rs-api 2.1

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1.259 rgbcolor 1.4 on 23 Feb 2006

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1.260 gdb 8.2-15.el8

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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c) If distribution of the work is made by offering access to copy
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specified materials from the same place.

d) Verify that the user has already received a copy of these
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facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
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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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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.
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Bnd-LastModified: 1535387016033
Build-Jdk: 1.8.0_181
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* /opt/cola/permits/1116954221_1608102504.95/0/spring-tx-5-3-2-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
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* /opt/cola/permits/1116954221_1608102504.95/0/spring-tx-5-3-2-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerSynchronization.java
* /opt/cola/permits/1116954221_1608102504.95/0/spring-tx-5-3-2-sources-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1116954221_1608102504.95/0/spring-tx-5-3-2-sources-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /opt/cola/permits/1116954221_1608102504.95/0/spring-tx-5-3-2-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
**1.267 system-text-encodings-web 5.0.0.0**

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.269 faraday-patron 1.0.0

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1.270 system-reflection-metadata 5.0.0.0

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1.272 promrus 1.2.0

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.275 tpm2-tss-tcti 2.3.2-3.el8

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1.276 curl 7.61.1-18.el8
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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.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

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## libressl

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## c-ares

(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.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.277 libcanberra 0.30-18.el8
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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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Whether this is true is especially significant if the work can be
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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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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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(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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How to Apply These Terms to Your New Programs

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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-------------------------------------------------------------------
1.282 go-datemath 0.1.1-0.20200323150745-74ddef604fff

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1.283 lib-pq 1.10.0

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// +build go1.10

package pq

import ("context")
"database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}
// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

1.284 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.287 powermock-api-mockito 1.7.0

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1.288 kerberos 1.17-6ubuntu4.1

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lib/kg5/kadm5/kadm_host_srv_names.c
lib/kg5/kdb/kdb_convert.c
lib/kg5/kdb/kdb_hdr.h
lib/kg5/kdb/kdb_log.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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
and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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kprop/kpropd_rpc.c
kprop/kproplog.c

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1.290 python-dbus 1.2.4-15.el8

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A JavaScript tokenizer / parser / beautifier / compressor.

This version is suitable for Node.js. With minimal changes (the exports stuff) it should work on any JS platform.

This file contains the tokenizer/parser. It is a port to JavaScript of parse-js [1], a JavaScript parser library written in Common Lisp by Marijn Haverbeke. Thank you Marijn!


Exported functions:

- tokenizer(code) -- returns a function. Call the returned function to fetch the next token.
- parse(code) -- returns an AST of the given JavaScript code.

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Based on parse-js (http://marijn.haverbeke.nl/parse-js/).

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1.295 go-jmespath 0.4.0

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=head2 RT #95409

L<https://rt.cpan.org/Ticket/Display.html?id=95409>

If the block of code given to L</pairmap> contains lexical variables that are captured by a
returned closure, and the closure is executed after the block has been re-used for the
next iteration, these lexicals will not see the correct values. For example:

my @subs = pairmap {
    my $var = "$a is $b";
    sub { print "$var\n" ;}
} one => 1, two => 2, three => 3;

$_->() for @subs;

Will incorrectly print
	hree is 3
three is 3
three is 3

This is due to the performance optimisation of using C<MULTICALL> for the code
block, which means that fresh SVs do not get allocated for each call to the block. Instead, the same SV is re-assigned for each iteration, and all the closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This creates an inner block that defeats the C<MULTICALL> logic, and does get fresh SVs allocated each time:

my @subs = pairmap {
    {
        my $var = "$a is $b";
        sub { print "$var\n" ;}
    }
} one => 1, two => 2, three => 3;
This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that C<uniqnum()> compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

my $x = Math::BigInt->new( "1" x 100 );
my $y = $x + 1;

say for uniqnum( $x, $y );

Will print just the value of C<$x>, believing that C<$y> is a numerically-equivalent value. This bug does not affect C<uniqstr>(), which will correctly observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !_$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

=cut
# Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);

# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR REFERENCES

The following functions all perform some useful activity on reference values.

=head2 blessed

my $pkg = blessed( $ref );

If C<$ref> is a blessed reference, the name of the package that it is blessed
into is returned. Otherwise C<undef> is returned.

$scalar = "foo";
$class = blessed $scalar; # undef

$ref = [];
$class = blessed $ref; # undef
$obj = bless [], "Foo";
$class = blessed $obj;              # "Foo"

Take care when using this function simply as a truth test (such as in
C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

=head2 refaddr

my $addr = refaddr( $ref );

If C<$ref> is reference, the internal memory address of the referenced value is
returned as a plain integer. Otherwise C<undef> is returned.

$addr = refaddr "string";       # undef
$addr = refaddr $var;           # eg 12345678
$addr = refaddr [];             # eg 23456784

$obj = bless {}, "Foo";
$addr = refaddr $obj;           # eg 88123488

=head2 reftype

my $type = reftype( $ref );

If C<$ref> is a reference, the basic Perl type of the variable referenced is
returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef>
is returned.

$type = reftype "string";       # undef
$type = reftype $var;           # SCALAR
etype = reftype [];             # ARRAY

$obj = bless {}, "Foo";
$type = reftype $obj;           # HASH

=head2 weaken

weaken( $ref );

The lvalue C<$ref> will be turned into a weak reference. This means that it
will not hold a reference count on the object it references. Also, when the
reference count on that object reaches zero, the reference will be set to
undef. This function mutates the lvalue passed as its argument and returns no
value.

This is useful for keeping copies of references, but you don't want to prevent
the object being DESTROY-ed at itsusual time.
{  
  my $var;
  $ref = \$var;
  weaken($ref);               # Make $ref a weak reference
}

# $ref is now undef

Note that if you take a copy of a scalar with a weakened reference, the copy
will be a strong reference.

my $var;
my $foo = \$var;
weaken($foo);               # Make $foo a weak reference
my $bar = $foo;             # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()>, for instance
when grepping through a list of weakened references to objects that may have
been destroyed already:

@object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining
references to objects will be strong, causing the remaining objects to never be
destroyed because there is now always a strong reference to them in the @object
array.

=head2 unweaken

  unweaken( $ref );

  I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back into a normal
(strong) reference again. This function mutates the lvalue passed as its
argument and returns no value. This undoes the action performed by
L</weaken>.

This function is slightly neater and more convenient than the
otherwise-equivalent code

my $tmp = $REF;  
undef $REF;  
$REF = $tmp;

(because in particular, simply assigning a weak reference back to itself does
not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak
my $weak = isweak( $ref );

Returns true if C<$ref> is a weak reference.

$ref = \$foo;
$weak = isweak($ref);   # false
weaken($ref);
$weak = isweak($ref);   # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

$copy = $ref;
$weak = isweak($copy);   # false

=head1 OTHER FUNCTIONS

=head2 dualvar

my $var = dualvar( $num, $string );

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

$foo = dualvar 10, "Hello";
$num = $foo + 2;   # 12
$str = $foo . " world";   # Hello world

=head2 isdual

my $dual = isdual( $var );


If C<$var> is a scalar that has both numeric and string values, the result is true.

$foo = dualvar 86, "Nix";
$dual = isdual($foo);   # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = "10";
$dual = isdual($foo);   # false
$bar = $foo + 0;
$dual = isdual($foo);   # true
Note that although C<$!> appears to be a dual-valued variable, it is actually implemented as a magical variable inside the interpreter:

```
#!/usr/bin/perl

$! = 1;
print("$!\n");  # "Operation not permitted"
$dual = isdual($!);  # false

You can capture its numeric and string content using:

```
$dual = isdual($err);  # true
```

=head2 isvstring

my $vstring = isvstring( $var );

If C<$var> is a scalar which was coded as a vstring, the result is true.

```
$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s";  #true
printf($fmt,$vs);
```

=head2 looks_like_number

my $isnum = looks_like_number( $var );

Returns true if perl thinks C<$var> is a number. See L<perlapi/looks_like_number>.

=head2 openhandle

my $fh = openhandle( $fh );

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is is a tied handle. Otherwise C<undef> is returned.

```
$fh = openhandle(*STDIN);  # *STDIN
$fh = openhandle(\*STDIN); # *STDIN
$fh = openhandle(*NOTOPEN);  # undef
$fh = openhandle("scalar");  # undef
```

=head2 readonly

my $ro = readonly( $var );

Returns true if C<$var> is readonly.

```
sub foo { readonly($_[0]) }
```
$readonly = foo($bar);  # false
$readonly = foo(0);    # true

=head2 set_prototype

my $code = set_prototype( $code, $prototype );

Sets the prototype of the function given by the $code reference, or deletes
it if $prototype is undef. Returns the $code reference itself.

set_prototype \&foo, '$$';

=head2 tainted

my $t = tainted( $var );

Return true if $var is tainted.

$taint = tainted("constant");  # false
$taint = tainted($ENV{PWD});    # true if running under -T

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to
use L</isweak> or L</weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use
L</isvstring> you will need to use a newer release of perl.

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will
show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>
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Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved.
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under the same terms as Perl itself.

Additionally L</weaken> and L</isweak> which are

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under the same terms as perl itself.

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This program 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/1125845560_1611458224.43/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-GHjeu7QE/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-mVt1A4gL/Scalar-List-Utils-1.49/lib/Scalar/ListUtil.pm
No license file was found, but licenses were detected in source scan.

/* Copyright (c) 1997-2000 Graham Barr <gbarr@cpan.org>. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 */

Found in path(s):
* /opt/cola/permits/1125845560_1611458224.43/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-GHjeu7QE/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-mVt1A4gL/Scalar-List-Utils-1.49/ListUtil.xs
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'Common Scalar and List utility subroutines'
author:
 - 'Graham Barr <gbarr@cpan.org>''
build_requires:
ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Scalar-List-Utils
no_index:
directory:
  - t
  - inc
requires:
  Test::More: '0'
  perl: '5.006'
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
  version: '1.49'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1125845560_1611458224.43/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-GHjeu7QE/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-mVt1A4gL/Scalar-List-Utils-1.49/META.yml
No license file was found, but licenses were detected in source scan.

# Copyright (c) 2014 Paul Evans <leonerd@leonerd.org.uk>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1125845560_1611458224.43/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-GHjeu7QE/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-mVt1A4gL/Scalar-List-Utils-1.49/lib/Sub/Util.pm
No license file was found, but licenses were detected in source scan.

/*
------------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

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.

  Open Source Used In Cisco Identity Services Engine 3.2 4285
=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

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 F<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 F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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. Warnings will still be displayed.

=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 --strip

Strip all script and documentation functionality from <i>ppport.h</i>. This reduces the size of <i>ppport.h</i> dramatically and may be useful if you want to include <i>ppport.h</i> in smaller modules without increasing their distribution size too much.

The stripped <i>ppport.h</i> will have a C<i>--unstrip</i> option that allows you to undo the stripping, but only if an appropriate C<i>Devel::PPPort</i> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by <i>ppport.h</i>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by <i>ppport.h</i> 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

=item *

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 pppport.h --list-provided
```

to see which API elements are provided by pppport.h.

=item *

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 F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables 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 F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```
For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<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>
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<td>NEED_grok_number_GLOBAL</td>
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<tr>
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<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
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<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
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<td>load_module()</td>
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<td>NEED_load_module_GLOBAL</td>
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<td>NEED_my_snprintf_GLOBAL</td>
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<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
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<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
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<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
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<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
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<tr>
<td>pv_pretty()</td>
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</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>: 

---

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 4290
#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 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 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.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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) 2004-2010, 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;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r
|\[\r
\])';   # line feed
my $HS = '\[ \t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ecs = '\./*';


my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
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 {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $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(

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AvFILLp[5.004050][p
AvFILL][n
CLASS][n
CPERLScope[5.005000][p
CX_CURPAD_SAVE][n
CX_CURPAD_SV][n
CopFILEAV[5.006000][p
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CopFILEGV[5.006000][p
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G_EVAI][n
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IN\_LOCALE\[5.007002\]p
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IS\_NUMBER\_INFINITY\[5.007002\]p
IS\_NUMBER\_IN\_UV\[5.007002\]p
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Nullcv||
Nullhv||
Nullsv||
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PL_rsfp|5.004050||p
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PL_stack_sp|5.004050||p
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PerlIO_setlinebuf
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PerlIO_stdin
PerlIO_stdout
PerlIO_tell
PerlIO_unread
PerlIO_write
Perl_signbit
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PoisonNew
PoisonWith
Poison
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Renewc
Renew
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SAVECOMPPAD
SAVEPADSV
SAVETMPS
SAVE_DEFSV
SPAGAIN
START_EXTERN_C
START_MY_CXT
STMT_END
STMT_START
STR_WITH_LEN
SV_CONST_RETURN
SV_COW_DROP_PV
SV_COW_SHARED_HASH_KEYS
SV_GMAGIC
SV_HAS_TRAILING_NUL
SV_IMMEDIATE_UNREF
SV_MUTABLE_RETURN
SV_NOSTEAL
SV_SMAGIC
SV_UTF8_NO_ENCODING
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add_utf16_textfilter
addmad
allocmy
amagic_call
amagic_cmp_locale
amagic_cmp
amagic_i_ncmp
amagic_ncmp
anonymise_cv
any_dup
ao
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append_list
append_madprops
apply_attr_my
apply_attr_string
apply_attrs
apply
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atfork_unlock
av_arylen_p
av_clear
av_create_and_push
av_create_and_unshift_one
av_delete
av_exists
av_extend
av_fetch
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av_reify
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sv_2io
sv_2iuv_common
sv_2iuv_non_preserve
sv_2iv_flags
sv_2iv
sv_2mortal
sv_2num
sv_2nv
sv_2pv_flags
sv_2pv_nolen
sv_2pvbyte_nolen
sv_2pvbyte
sv_2pvutf8_nolen
sv_2pvutf8
sv_2pv
sv_2uv_flags
sv_2uv
sv_add_arena
sv_add_backref
sv_backoff
sv_bless

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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 "$f ".(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}

# Scan for possible replacement candidates

my($replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api {
    my $code = shift;
    $code =~ s{\/(?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[\^\r\n\]*)| "[^"\\]*(?:\\.[^"\\]*)*" | '\[^'\\]*(?:\\.[^\']*)*'}{}egsx;
grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
    if ($hint) {
        my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
        if (m{/^\s*\*\s(.*?)\s*$}) {
            my $f = $1;
        } else {
            $f = '<DATA>'; # Process each line
        }
        ...
    }
}

open DATA, '<API>' or die "Can't open API: $!";
while (<DATA>) {
    find_api;
    ...
}
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;

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my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$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 "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\n$hints{$f}" if exists $hints{$f};
print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print "\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};

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my @flags;
push @flags, 'explicit' if exists $need{$_};
push @flags, 'depend' if exists $depends{$_};
push @flags, 'hint' if exists $hints{$_};
push @flags, 'warning' if exists $warnings{$_};
my $flags = @flags ? ' [' . join(',', @flags) . ' ]' : ' 
;
print "$f$flags
";
exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "$_ is not a file\n" }
    } else {
      my @new = grep { -f } glob $_
        or warn "$_ does not exist\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
else {
  eval { requires 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 $xsc{$_} || /Ab\Q$ppport\ES/i || !(srcext)$i;
push @ { $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
| ", join "| ", @out);
} @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }
    info("Scanning $filename ...");
    my $c = do { local $/; <IN> };
    close IN;
    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
    my @ecom;
    $c =~ s{
        ( ^\$S*#\$SHS*include\b[^\r\n]+\b(?:\Q$ppport\ESUB\h)\b[^\r\n]*)
        | ^\$S*#\$SHS*(?:define|elif|if(?:def)?)\b[^\r\n]*
        | ( ^\$S*[^\r\n]*
          | "[^\"\n]*(?:\\."[^\"]*)*"
          | '[^\"\n]*(?:\\."[^'\"]*)*'
          | / (?::(?::[^\$ccs][^*]+(?::[^$ccs][^*]+)* / )
        )
    }{ defined $2 and push @ecom, $2;
        defined $1 ? $1 : "$ccs$#ecom$ccce" }mgsex;

    $file{ecom} = @ecom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^\$S*#\$SHS*include[^\r\n]+\b\Q$ppport\E\b/m;

    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}) {
            $file{uses_provided}{$func}++;
            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) {
                    $file{needs}{$_} = \'static\' if exists $need{$_};
                }
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{\'compat-version\'}) {
            if ($c =~ \b$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;
    }
}
$file{files}{$filename} = %$file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
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};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

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for $func (sort keys %{file{uses_provided}}) {
    if ($file{uses}->{$func}) {
        if (exists $file{uses_deps}->{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}->{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

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";
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/\bdefine\b.*$LF/$HS*define$HS+NEED_${func}\b.*$LF\bdefine\b\bNEED_${func}_GLOBAL\b.*$LF//mg);
        }
    }
}
diag($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");
      }
      $pp .= 
"\begin{verbatim}
#define NEED_$func$suffix
\end{verbatim}"
    }
  }

  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$HS+NEED_\w+)/(\Q$ppport\E)/s$/1$pp/m)
      || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*?$LF//m)
      || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
      || ($c =~ s/^/$pp/);
  }
  }
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include \"$ppport\"");
    $file{changes} += ($c =~ s/^$HS*?$HS*include.*\Q$ppport\E.*?$LSF//m);
  }
  }
# 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!^//!!) {
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$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");
}
my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$s\n")

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'\n")
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'\n")
        print F $c;
        close F;
      } else {
        error("Cannot open '$newfile' for writing: $!\n")
      }
    }
  } 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: \$!");
    delete \$opt{patch};
    \$opt{changes} = 1;
    goto fallback;
}
}
mydiff(*PATCH, \$filename, \$c);
}
else {
    fallback:
    info("Suggested changes:");
    mydiff(*STDOUT, \$filename, \$c);
}
}
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 try_use { eval "use @_"; return \$@ eq "" }

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 try_use('Text::Diff')) {
        \$diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        \$diff = <<HEADER . \$diff;
        --- $file
        +++ $file.patched
        HEADER

        close PATCH if \$patch_opened;
        exit 0;

        sub try_use { eval "use @_"; return \$@ eq "" }
        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 try_use('Text::Diff')) {
                \$diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
                \$diff = <<HEADER . \$diff;
                --- $file
                +++ $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 $diff;
        }
    }
    else {
        error("Cannot open '$tmp' for writing: $!");
    }

    unlink $tmp;
}
}
return undef;

sub rec_depend
{
  my($func, $seen) = @_;  
  return () unless exists $depends{$func};

  $seen = %{$seen||{}};

  return () if $seen->{func}++;

  my %s;

  grep !s{$_}++, map { ($_. rec_depend($_, $seen)) } @{$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(3)\.\d(3)/;

  $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;

  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+\.\d(3)\.\d(3)/;

  return ($r, $v, $s);
}
$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 "%d.%d.%d", $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", @_, "\n";
}

sub error {
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint {
    @opt{quiet} and return;
    my $func = shift;
my $rv = 0;
if (exists $warnings{func} && !$given_warnings{func}++) {
  my $warn = $warnings{func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{func} && !$given_hints{func}++) {
  my $hint = $hints{func};
  $hint =~ s/^/   /mg;
  print "   --- hint for func ---\n", $hint;
}
$rv;

sub usage {
  my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d\s+SYNOPSIS\s*^(.*?)\s*^=/ms;
  my %M = ( 'I' => '*' );
  $usage =~ s/\^perl\s+\S+/$^X $0/;
  $usage =~ s/(\[A-Z\])<\([^>]+\)>/$M{$1}$2$M{$1}/g;
  print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip {
  my $self = do { local(@ARGV,$/)=($0); <> };
  my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)\s*\=\w+/ms;
  $copy =~ s/^(?=\S+)/    /gms;
  $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
  $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!@ARGV && \$ARGV[0] eq '--unstrip') {
  eval { require Devel::PPPort };
  \
  \$@ and die "Cannot require Devel::PPPort, please install:\n";
  if (eval \$Devel::PPPort::VERSION < \$VERSION) {
    die "$0 was originally generated with Devel::PPPort $VERSION:\n";
    "Your Devel::PPPort is only version \$Devel::PPPort::VERSION:\n"
    "Please install a newer version, or --unstrip will not work:\n";
  }
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$X\$0 --unstrip
END

__DATA__
/*

Found in path(s):
* /opt/cola/permits/1125845560_1611458224.43/0/perl-Scalar-List-Utils-1.49-2.el8-1.src.rpm-cosi-expand-archive-GHjeu7QE/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-mVt1A4gL/Scalar-List-Utils-1.49/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION
C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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=cut

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
    make test
    make install

=KNOWN BUGS=

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing
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1.297 jaxb-api 2.0EA3
1.297.1 Available under license :

[subs="normal"]
....
Specification: {doctitle}

Version: {revnumber}

ifeval::["{revremark}" != ""
Status: {revremark}
endif::[]
ifeval::["{revremark}" == ""
Status: Final Release
endif::[]

Release: {revdate}
....

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1.299 jackson 2.10.4

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
   > Hello Glenn!
   >
   > I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.312 safeclib 4.1.3
1.312.1 Available under license:

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Version 2.1, February 1999

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Gocheck - A rich testing framework for Go

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Portions of this code are derived from:

   https://github.com/dradtke/gotk3

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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file name: UBiDiProps.java
encoding: US-ASCII
tab size: 8 (not used)
indentation:4

created on: 2005Jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/c.

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itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the
<b>strong</b> font".

<p><code>Replaceable</code> specifies ranges using a start
offset and a limit offset. The range of characters thus specified
includes the characters at offset start..limit-1. That is, the
start offset is inclusive, and the limit offset is exclusive.
Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement Replaceable in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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1.318 perl-text-parsewords 3.30-395.el8
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abstract: parse text into an array of tokens or array of arrays
author:
  - 'Alexandr Ciornii <alexchorny@gmail.com>'
built_requires:
  ExtUtils::MakeMaker: 0
  Scalar::Util: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-ParseWords
no_index:
directory:
  - t
  - inc
requires:
  perl: 5.006
resources:
  repository: http://github.com/chorny/Text-ParseWords
version: 3.30

License: GPL+ or Artistic

=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

use Text::ParseWords;
@lists = nested_quotewords($delim, $keep, @lines);
@words = quotewords($delim, $keep, @lines);
@words = shellwords(@lines);
@words = parse_line($delim, $keep, $line);
@words = old_shellwords(@lines); # DEPRECATED!

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter
(which can be a regular expression)
and a list of lines and then breaks those lines up into a list of
words ignoring delimiters that appear inside quotes. &quotewords()
returns all of the tokens in a single long list, while &nested_quotewords()
returns a list of token lists corresponding to the elements of @lines.
&parse_line() does tokenizing on a single string. The &quotewords()
functions simply call &parse_line(), so if you're only splitting
one line you can call &parse_line() directly and save a function
call.

The $keep argument is a boolean flag. If true, then the tokens are
split on the specified delimiter, but all other characters (including
quotes and backslashes) are kept in the tokens. If $keep is false then the
&quotewords() functions remove all quotes and backslashes that are
not themselves backslash-escaped or inside of single quotes (i.e.,
&quotewords() tries to interpret these characters just like the Bourne
shell). NB: these semantics are significantly different from the
original version of this module shipped with Perl 5.000 through 5.004. As an additional feature, $keep may be the keyword "delimiters" which causes the functions to preserve the delimiters in each string as tokens in the token lists, in addition to preserving quote and backslash characters.

&shellwords() is written as a special case of &quotewords(), and it does token parsing with whitespace as a delimiter-- similar to most Unix shells.

=head1 EXAMPLES

The sample program:

use Text::ParseWords;
@words = quotewords("\s+", 0, q{this is "a test" of quotewords \"for you\"});
$i = 0;
foreach (@words) {
    print "$i: <$_>
    $i++;
}

produces:

 0: <this>
 1: <is>
 2: <a test>
 3: <of quotewords>
 4: <"for>
 5: <you>

demonstrating:

=over 4

=item 0Z<> a simple word
=item 1Z<> multiple spaces are skipped because of our $delim
=item 2Z<> use of quotes to include a space in a word
=item 3Z<>
use of a backslash to include a space in a word

=item 4Z<>

use of a backslash to remove the special meaning of a double-quote

=item 5Z<>

another simple word (note the lack of effect of the backslashed double-quote)

=back

Replacing C<quotewords(\s+, 0, q{this is...})> with C<shellwords(q{this is...})> is a simpler way to accomplish the same thing.

=head1 SEE ALSO

L<Text::CSV> - for parsing CSV files

=head1 AUTHORS

Maintainer: Alexandr Ciornii <alexchorny@github.com>. Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for &parse_line() (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>.

Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks-- thanks everybody! Special thanks to Michael Schwern <schwern@envirolink.org> for assuring me that a &nested_quotewords() would be useful, and to Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about error-checking (sort of-- you had to be there).

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=cut

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* /opt/cola/permits/1125845696_1611460365.07/0/perl-Text-ParseWords-3.30-395.el8-1.src.rpm-cosi-expand-
1.319 pc re 8.39-12build1

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Written by: Zoltan Herczeg
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-
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* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/TransactionManager.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/TransactionExecution.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/TransactionDefinition.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/reactive/TransactionContextHolder.java
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  jar/org/springframework/jca/cci/ CannotGetCciConnectionException.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/HeuristicCompletionException.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/transaction/transaction/support/SimpleTransactionScope.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/transaction/transaction/interceptor/RollbackRuleAttribute.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/cci/core/RecordExtractor.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/connection/ConnectionHolder.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/transaction/interceptor/RuleBasedTransactionAttribute.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/context/BootstrapContextAware.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/dao/support DaoSupport.java
  */opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
  jar/org/springframework/transaction/InvalidTimeoutException.java
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jar/org/springframework/dao/TransientDataAccessException.java
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jar/org/springframework/dao/ConcurrencyFailureException.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/transaction/event/TransactionPhase.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/dao/DataAccessException.java

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jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-
jar/org/springframework/jca/cci/core/RecordCreator.java

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* /opt/ws_local/PERMITS_SQL/1074982268_1596010257.37/0/spring-tx-5-2-8-release-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java

1.337 libxv 1.0.11 7.el8

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1.338 tcsh 6.20.00-4.ph2

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 */
/*
 * config.h -- configure various defines for tcsh
 */
All source files should #include this FIRST.

* Edit this to match your system type.

 ifndef _h_config
 define _h_config

 //**************************** System dependant compilation flags ****************************/

 /*
 * POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
 */
 undef POSIX

 /*
 * POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
 */
 undef POSIXJOBS

 /*
 * VFORKThis machine has a vfork().
 * It used to be that for job control to work, this define
 * was mandatory. This is not the case any more.
 * If you think you still need it, but you don't have vfork,
 * define this anyway and then do #define vfork fork.
 * I do this anyway on a Sun because of yellow pages brain damage,
 * [should not be needed under 4.1]
 * and on the iris4d cause SGI's fork is sufficiently "virtual"
 * that vfork isn't necessary. (Besides, SGI's vfork is weird).
 * Note that some machines eg. rs6000 have a vfork, but not
 * with the berkeley semantics, so we cannot use it there either.
 */
 define VFORK

 /*
 * BSDJOBSYou have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
 define BSDJOBS

 /*
 * BSDTIMESYou have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
 define BSDTIMES
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/"
* TERMIO You have struct termio instead of struct sgttyb.
* This is usually the case for SYSV systems, where
* BSD uses sgttyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/"
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL0

/"
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/******************** local defines ****************исте

#endif /* _h_config */

1.339 samba 4.13.3-3.el8
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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.343 opensaml-messaging-api 3.4.5

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1.345 logstash-output-udp 3.2.0

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1.346 logstash-codec-avro 3.3.1

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1.347 typing-extensions 3.7.4.3
A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.348 cyrus-sasl 2.1.27-6.el8_5

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.349 libaio 0.3.112 1.el8
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-------------------------------

Written by: Philip Hazel
Email local part: ph10
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---------------------------------------------------------------------------

[zlib]

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 version 1.2.3, July 18th, 2005

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

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

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THE BASIC LIBRARY FUNCTIONS

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Version 3, 29 June 2007
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+jar/org/jvnet/hk2/internal/DelegatingClassLoader.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/IterableProviderImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ThreeThirtyResolver.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/external/generator/ServiceLocatorGeneratorImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/AutoActiveDescriptor.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/Creator.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/InstanceLifecycleEventImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ClazzCreator.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/Collector.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/DescriptorComparator.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/SingletonContext.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ServiceLocatorImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ValidationInformationImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/SystemDescriptor.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/Utilities.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/NarrowResults.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/SystemInjecteeImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ServiceHandleComparator.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/ErrorInformationImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
+jar/org/jvnet/hk2/internal/IndexedListData.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/ConstantActiveDescriptor.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/DynamicConfigurationServiceImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/DynamicConfigurationServiceImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/FactoryCreator.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/ImmediateResults.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/PerLookupContext.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/ServiceHandleImpl.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
jar/org/jvnet/hk2/internal/ServiceHandleImpl.java
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  jar/org/jvnet/hk2/internal/MethodInterceptorHandler.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
  jar/org/jvnet/hk2/internal/ConstructorInterceptorHandler.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
  jar/org/jvnet/hk2/internal/DefaultClassAnalyzer.java
* /opt/cola/permits/1110677241_1654022846.9220798/0/hk2-locator-2-3-0-b10-sources-2-
  jar/org/jvnet/hk2/internal/PopulatorImpl.java

1.353 multidict 5.1.0
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1.354 jackson-databind 2.10.1

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1.355 utils 0.0.0-20210819203725-bdf08cb9a70a

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1.356 iwl5150-firmware 8.24.2.2-97.el8.1

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
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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
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.360 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

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1.364 icu 60.3 2.el8_1

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

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

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

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

## Versioned libraries rules

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

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## 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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1.365 logstash-output-lumberjack 3.1.9

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* Joo Duarte (jsvd)
* Nathan Burns (nathanburns)
* Nick Ethier (nickethier)
* Pier-Hugues Pellerin (ph)
* Richard Pijnenburg (electrical)

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# Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `~HTTPResponse.stream()`.
  * Bugfix for `~ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `~HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.
* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

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

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

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

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

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

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

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

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

1.367 cobertura-maven-plugin 2.7

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 *
 * @parameter default-value="false" expression="${cobertura.omitGplFiles}"
 * @since 2.5
 */

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jar/org/codehaus/mojo/cobertura/tasks/InstrumentTask.java
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jar/org/codehaus/mojo/cobertura/CoberturaInstrumentMojo.java
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jar/org/codehaus/mojo/cobertura/tasks/AbstractTask.java
* /opt/cola/permits/1175311713_1624358503.38/0/cobertura-maven-plugin-2-7-sources-
jar/org/codehaus/mojo/cobertura/CoberturaCleanMojo.java
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* /opt/cola/permits/1175311713_1624358503.38/0/cobertura-maven-plugin-2-7-sources-jar/org/codehaus/mojo/cobertura/CoberturaCheckIntegrationTestMojo.java

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debug.properties
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* /opt/cola/permits/1175311713_1624358503.38/0/cobertura-maven-plugin-2-7-sources-jar/cobertura-plugin/log4j-error.properties

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1.371 orc 0.4.28 3.el8

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1.372 nghttp2 1.33.0-3.el8_2.1

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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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# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
# image/gif
# image/xief
# text/html html htm HTML HTM
text/plain text TXT TEXT java c c++ cpp pl cc h
image/gif GIF
image/xief
image/jpeg jpeg jpg jpeg

Ty Coon, President of Vice
image/tiff
text/x-speech
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixelmap (8-bit color)
image/x-xpixmap

# Portable Network Graphics
image/png

# Scalable Vector Graphics
image/svg+xml

# Image Exchange Format (RFC 1314)
image/ief

# RGB
image/rgb

# Group III Fax (RFC 1494)
image/g3fax

# X Windowdump format
Open Source Used In Cisco Identity Services Engine 3.2

# AUDIO/VOICE/MUSIC RELATED TYPES

# """"basic"" audio - 8-bit u-law PCM"
audio/basic snd
# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpegmpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midi
# Koan music data (SSeyo)
application/vnd.koanskp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideoavi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdovdo
# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
# PC executable
application/octet-stream
text/javascript
application/x-sh
application/x-csh
application/x-perl
application/x-tcl

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript
application/x-sh
application/x-csh
application/x-perl

# UNICORN PROGRAM/SCRIPTS

# FutureSplash vector animation (FutureWave)
application/futuresplash

# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
application/x-asap
application/astound
application/astound

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript
application/x-oleobject

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape

# Visual Basic objects (Amara)
application/x-webbasic
# Specialized data entry forms (Alpha Software)
application/x-alpha-form

# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream
excom

# Pointcast news data (Pointcast)
application/x-pcn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excel

# PowerPoint (Microsoft)
application/vnd.ms-powerpoint

# Microsoft Project (Microsoft)
application/vnd.ms-project

# SourceView document (Dataware Electronics)
application/vnd.svd

# Net Install - software install (20/20 Software)
application/x-net-install

# Carbon Copy - remote control/access (Microcom)
application/ccv

# Spreadsheets (Visual Components)
workbook/formulaone

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrml

# WIRL - VRML data (VREAM)
x-world/x-vream

# Play3D 3d scene data (Play3D)
application/x-p3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svr

# WebActive 3d data (Plastic Thought)
x-world/x-wvwr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-mesh

# Vis5D 5-dimensional data
application/v5d
application/iges
# IGES models -- CAD/CAM (CGM) data
# Autocad WHIP vector drawings
drawing/x-dwf

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* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/ehcache/EhCacheCache.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/JCacheCacheManager.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/JCacheAspectSupport.java
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*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/caffeine/TransactionAwareCacheDecorator.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/QuartzJobBean.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
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*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/MailSender.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/javamail/InternetAddressEditor.java
*/opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
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* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/CacheResolverAdapter.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/DefaultCacheMethodDetails.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/interceptor/JCacheOperationSource.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/config/JCacheConfigurer.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/config/JCacheManagerFactoryBean.java
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* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources.jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
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  jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
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  jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
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* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /opt/cola/permits/1175309515_1624358374.37/0/spring-context-support-5-3-2-sources-jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.376 perl-path tools 3.74-1.el8
1.376.1 Available under license:
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4
=item tmpdir

Modifies the list of places temp directory information is looked for.

 $ENV{TMPDIR}
 $ENV{TEMP}
 $ENV{TMP}
 /tmp
 /

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

=head1 COPYRIGHT

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=cut

Found in path(s):
  * /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-cUECnWlj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/OS2.pm

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

=back

=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

=head1 COPYRIGHT

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it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-eUECnWl/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/Win32.pm

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

---
abstract: 'Tools for working with directory and file names'
author:
  - 'Perl 5 Porters'
built_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  File::Basename: '0'
  Scalar::Util: '0'
  Test::More: '0.88'
resources:
  bugtracker: https://rt.perl.org/rt3/
  homepage: http://dev.perl.org/
  repository: git://perl5.git.perl.org/perl.git
  version: '3.74'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

 Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

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=cut

Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-cUECnWIj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/Cygwin.pm

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

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas KE<ouml>nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:
The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a path.

$path = File::Spec->canonpath( $path ) ;

Note that this does *not* collapse $x/./$y sections into $y. This is by design. If $x/foo> on your system is a symlink to $b/bar/baz>, then $x/foo/./quux> is actually $b/bar/quux>, not $b/quux> as a naive $x/./>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>’s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses
OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-) 

$\text{path} = \text{File}::\text{Spec}->\text{catdir}( @\text{directories} );$

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

$\text{path} = \text{File}::\text{Spec}->\text{catfile}( @\text{directories}, \$\text{filename} );$

=item curdir
X<curdir>

Returns a string representation of the current directory.

$\text{curdir} = \text{File}::\text{Spec}->\text{curdir}();$

=item devnull
X<devnull>

Returns a string representation of the null device.

$\text{devnull} = \text{File}::\text{Spec}->\text{devnull}();$

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$\text{rootdir} = \text{File}::\text{Spec}->\text{rootdir}();$

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$\text{ENV}[\text{TMPDIR}]>$ (unless taint is on) and F</tmp>.

$\text{tmpdir} = \text{File}::\text{Spec}->\text{tmpdir}();$

=item updir
X<updir>
Returns a string representation of the parent directory.

    $updir = File::Spec->updir();

=item no_upwards

Given a list of files in a directory (such as from C<readdir()>),
strip out C<.'> and C<.'>.

B<SECURITY NOTE:> This does NOT filter paths containing C<.'>, like
C<.././././etc/passwd>, only literal matches to C<.'> and C<.'>.

    @paths = File::Spec->no_upwards( readdir $dirhandle );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic
case is not or is significant when comparing file specifications.
Cygwin and Win32 accept an optional drive argument.

    $is_case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

    $is_absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or
Mac OS (Classic). It does consult the working environment for VMS
(see L<File::Spec::VMS/file_name_is_absolute>).

=item path
X<path>

Takes no argument. Returns the environment variable C<PATH> (or the local
platform's equivalent) as a list.

    @PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>
Splits a path into volume, directory, and filename portions. On systems with no concept of volume, returns " for volume.

```perl
($volume,$directories,$file) = File::Spec->splitpath( $path );
($volume,$directories,$file) = File::Spec->splitpath( $path, $no_file );
```

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file> true makes this return ( "., $path, " ).

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

```perl
@dirs = File::Spec->splitdir( $directories );
```

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<"">) can be returned, because these are significant on some OSes.

=item catpath()
Takes volume, directory and file portions and returns an entire path. Under Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C<$volume> is significant.

```perl
$full_path = File::Spec->catpath( $volume, $directory, $file );
```

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

```perl
$rel_path = File::Spec->abs2rel( $path ) ;
```
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>. This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.
If \$path is absolute, it is cleaned up and returned using \$\langle canonpath\rangle.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see \$\langle File::Spec::Unix\rangle, \$\langle File::Spec::Mac\rangle, \$\langle File::Spec::OS2\rangle, \$\langle File::Spec::Win32\rangle, or \$\langle File::Spec::VMS\rangle.

=head1 SEE ALSO

\$\langle File::Spec::Unix\rangle, \$\langle File::Spec::Mac\rangle, \$\langle File::Spec::OS2\rangle, \$\langle File::Spec::Win32\rangle, \$\langle File::Spec::VMS\rangle, \$\langle File::Spec::Functions\rangle, \$\langle ExtUtils::MakeMaker\rangle

=head1 AUTHOR

Currently maintained by Ken Williams \$\langle <KWILLIAMS@cpan.org> \rangle.

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Tim Bunce \$\langle <Tim.Bunce@ig.co.uk> \rangle,
VMS support by Charles Bailey \$\langle <bailey@newman.upenn.edu> \rangle,
OS/2 support by Ilya Zakharevich \$\langle <ilya@math.ohio-state.edu> \rangle,
Mac support by Paul Schinder \$\langle <schinder@pobox.com> \rangle, and
Thomas Wegner \$\langle <wegner_thomas@yahoo.com> \rangle,
abs2rel() and rel2abs() written by Shigio Yamaguchi \$\langle <shigio@tamacom.com> \rangle,
modified by Barrie Slaymaker \$\langle <barries@slaysys.com> \rangle,
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

=head1 COPYRIGHT

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=cut
NAME
Cwd - get pathname of current working directory

SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in all code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

getcwd

my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>, with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd' (but without the trailing line
=item fastcwd

    my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't
chdir() you back into. If fastcwd encounters a problem it will return
undef but will probably leave you in a different directory. For a
measure of extra security, if everything appears to have worked, the
fastcwd() function will check that it leaves you in the same directory
that it started in. If it has changed it will C<die> with the message
"Unstable directory path, current directory changed
unexpectedly". That should never happen.

=item fastgetcwd

    my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

    my $cwd = getdcwd();
    my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current
working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single
argument and return the absolute pathname for it. If no argument is
given they'll use the current working directory.

=over 4

=item abs_path
my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3). On error returns C<undef>, with C<$!> set to indicate the error.

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=back

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.
AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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SEE ALSO

L<File::chdir>

AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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SEE ALSO
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-cUECnWlj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

/

ppport.h -- Perl/Pollution/Portability Version 3.39

Automatically created by Devel::PPPort running under perl 5.027009.

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.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus                 accept C++ comments
--quiet                     don't output anything except fatal errors
--nodiag                   don't show diagnostics
--nohints                   don't show hints
--nochanges                 don't suggest changes
--nofilter                  don't filter input files

--strip                     strip all script and doc functionality
                           from ppport.h

--list-provided             list provided API
--list-unsupported          list unsupported API
--api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.
=head2 --diff="<program>"

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version="<version>"

Tell F<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 F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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. Warnings will still be displayed.

=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 --strip
Strip all script and documentation functionality from \texttt{ppport.h}. This reduces the size of \texttt{ppport.h} dramatically and may be useful if you want to include \texttt{ppport.h} in smaller modules without increasing their distribution size too much.

The stripped \texttt{ppport.h} will have a \texttt{C--unstrip} option that allows you to undo the stripping, but only if an appropriate \texttt{Devel::PPPort} module is installed.

\texttt{--list-provided}

Lists the API elements for which compatibility is provided by \texttt{ppport.h}. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

\texttt{--list-unsupported}

Lists the API elements that are known not to be supported by \texttt{ppport.h} and below which version of Perl they probably won't be available or work.

\texttt{--api-info=I\textless name\textgreater}

Show portability information for API elements matching \texttt{I\textless name\textgreater}. If \texttt{I\textless name\textgreater} is surrounded by slashes, it is interpreted as a regular expression.

\texttt{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.

\texttt{perl ppport.h --list-provided}

to see which API elements are provided by \texttt{ppport.h}.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the \texttt{C\textless PL\textgreater} 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 F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables 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 F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>SvRX()</td>
<td>NEED_SvRX</td>
<td>NEED_SvRX_GLOBAL</td>
</tr>
<tr>
<td>caller_cx()</td>
<td>NEED_caller_cx</td>
<td>NEED_caller_cx_GLOBAL</td>
</tr>
<tr>
<td>croak_xs_usage()</td>
<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
</tr>
<tr>
<td>die_sv()</td>
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</tr>
<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_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>gv_fetchpvn_flags()</td>
<td>NEED_gv_fetchpvn_flags</td>
<td>NEED_gv_fetchpvn_flags_GLOBAL</td>
</tr>
</tbody>
</table>
load_module()    NEED_load_module   NEED_load_module_GLOBAL
mess()          NEED_mess         NEED_mess_GLOBAL
mess_nocontext() NEED_mess_nocontext NEED_mess_nocontext_GLOBAL
mess_sv()       NEED_mess_sv     NEED_mess_sv_GLOBAL
mg_findext()    NEED_mg_findext  NEED_mg_findext_GLOBAL
my_snprintf()   NEED_my_snprintf NEED_my_snprintf_GLOBAL
my_sprintf()    NEED_my_sprintf  NEED_my_sprintf_GLOBAL
my_strlcat()    NEED_my_strlcat  NEED_my_strlcat_GLOBAL
my_strlcpy()    NEED_my_strlcpy  NEED_my_strlcpy_GLOBAL
newCONSTSUB()   NEED_newCONSTSUB NEED_newCONSTSUB_GLOBAL
newRV_noinc()   NEED_newRV_noinc  NEED_newRV_noinc_GLOBAL
newSV_type()    NEED_newSV_type  NEED_newSV_type_GLOBAL
newSVpvn_flags() NEED_newSVpvn_flags NEED_newSVpvn_flags_GLOBAL
newSVpvn_share() NEED_newSVpvn_share NEED_newSVpvn_share_GLOBAL
pv_display()    NEED_pv_display  NEED_pv_display_GLOBAL
pv_escape()     NEED_pv_escape   NEED_pv_escape_GLOBAL
pv_pretty()     NEED_pv_pretty  NEED_pv_pretty_GLOBAL
sv_2pv_flags()  NEED_sv_2pv_flags NEED_sv_2pv_flags_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_pvn_force_flags() NEED_sv_pvn_force_flags NEED_sv_pvn_force_flags_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
sv_unmagicext() NEED_sv_unmagicext NEED_sv_unmagicext_GLOBAL
vload_module()  NEED_vload_module NEED_vload_module_GLOBAL
vmess()         NEED_vmess        NEED_vmess_GLOBAL
vnewSVpvf()     NEED_vnewSVpvf   NEED_vnewSVpvf_GLOBAL
warner()        NEED_warner      NEED_warner_GLOBAL

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

#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 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 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.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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.
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 here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

- The complete output from running "perl -V"
- This file.
- The name and version of the module you were trying to build.
- A full log of the build that failed.
- Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '\$\{^RE_TRIE_MAXBUF\} = -1' if \$\] >= 5.009004 && \$\] <= 5.009005 }

my $VERSION = 3.39;

my %opt = {
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
};

my($ppport) = $0 =~ /\b\w.\w\+\b/;
my $LF = '(?:\r\n|\]\r\n\])'; # line feed
my $HS = '[[ ]\t]';       # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*\*\/';
my $cce = '\*\/\*';
my $rcs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(\%opt, qw( 
        help quiet diag! filter! hints! changes! cplusplus strip version 
        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";

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}

my %API = map { /\^\w+(\|\w+)+/im?}{
    ($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(
ASCII_TO_NEED][5.007001]n
AvFILLp[5.004050]p
AvFILL][
BhkDISABLE][5.024000]
BhkENABLE][5.024000]
BhkENTRY_set][5.024000]
BhkENTRY][
BhkFLAGS][
CALL_BLOCK_HOOKS][
CLASS][n
CPERLscope][5.005000][p
CX_CURPAD_SAVE][
CX_CURPAD_SAVE][
C_ARRAY_END][5.013002][p
C_ARRAY_LENGTH[5.008001]p
CopFILEAV[5.006000]p
CopFILEGV_set[5.006000]p
CopFILEGV[5.006000]p
CopFILESV[5.006000]p
CopFILE_set[5.006000]p
CopFILE[5.006000]p
CopSTASHPV_set[5.006000]p
CopSTASHPV[5.006000]p
CopSTASH_eq[5.006000]p
CopSTASH_set[5.006000]p
CopSTASH[5.006000]p
CopyD[5.009002]5.004050]p
Copy][
CvPADLIST][5.008001]
CvSTASH][
CvWEAKOUTSIDE][
DECLARATION_FOR_LC_NUMERIC_MANIPULATION][5.021010]n
DEFSV_set[5.010001]p
DEFSV[5.004050]p
DO.UTF8[5.006000]
END_EXTERN_C[5.005000]p
ENTER][
ERRSV[5.004050]p
EXTEND][
EXTERN_C[5.005000]p
F0convert][n
FREETMPS][
GIMME_V][5.004000]n
GIMME][n
GROK_NUMERIC_RADIX[5.007002]p
G_ARRAY][
G_DISCARD][
G_EVAL][
G_METHOD[5.006001]p
G_NOARGS][
G_SCALAR][
G_VOID[5.004000]
GvAMupdate][5.011000]
HE1_SVKEY[5.003070]p
HeHASH[5.003070]
HeKEY[5.003070]
HeKLEN[5.003070]
HePV[5.004000]
HeSVKEY_force[5.003070]
HeSVKEY_set[5.004000]
HeSVKEY[5.003070]
HeUTF8[5.010001|5.008000]
HeVAL[5.003070]
HvENAMELEN[5.015004]
HvNAMEUTF8[5.015004]
HvNAME[5.013007]
HvNAMELEN_get[5.009003]
HvNAMELEN[5.015004]
HvNAMEUTF8[5.015004]
HvNAME_get[5.009003]
HvNAME[|
INT2PTR[5.006000]
IN_LOCALE_COMPILETIME[5.007002]
IN_LOCALE_RUNTIME[5.007002]
IN_LOCALE[5.007002]
IN_PERL_COMPILETIME[5.008001]
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]
IS_NUMBER_INFINITY[5.007002]
IS_NUMBER_IN_UV[5.007002]
IS_NUMBER_NAN[5.007003]
IS_NUMBER_NEG[5.007002]
IS_NUMBER_NOT_INT[5.007002]
IVSIZE[5.006000]
IVTYPE[5.006000]
IVdf[5.006000]
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LINKLIST[5.013006]
LVRET[|
MARK[|
MULTICALL[5.024000]
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MUTABLE_SV[5.010001]
MY_CXT_CLONE[5.009002]
MY_CXT_INIT[5.007003]
MY_CXT[5.007003]
MoveD[5.009002|5.004050]
Move||
NATIVE_TO_NEED[5.007001]
NOOP[5.005000]
NUM2PTR[5.006000]
NVTYPE[5.006000]
NVef[5.006001]
NVrf[5.006001]
NVgf[5.006001]
Newxc[5.009003]
nullav
nullch
nullcv
nullhv
nullsv
op_class[5.013007]
op_desc[5.007003]
op_name[5.007003]
op_type_is_or_was[5.019010]
op_type_is[5.019007]
origmark
op_has_sibling[5.021007]
op_last_sibling_set[5.021011]
op_may_be_sibling_set[5.021011]
op_more_sibling_set[5.021011]
op_sibling[5.021007]
pad_base_sv
pad_clone_vars
pad_compname_flags
pad_compname_gen_set
pad_compname_gen
pad_compname_our_stash
pad_compname_pv
pad_compname_type
pad_restore_local
pad_save_local
pad_save_set_nullpad
pad_setsv
pad_set_cur_nosave
pad_set_cur
pad_sv
pad_sv
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perlio_funcs_decl[5.009003]
perl_abs[5.008001]
perl_args_assert_croak-xs_usage
perl_bcdversion[5.024000]
perl_gcc_brace_groups_forbidden[5.008001]
perl_hash[5.003070]
perl_int_max[5.003070]
perl_int_min[5.003070]
perl_long_max[5.003070]
perl_long_min[5.003070]
perl_magic_arylen[5.007002]
perl_magic_backref[5.007002]
perl_magic_bm[5.007002]
SV_COW_SHARED_HASH_KEYS
SV_GMAGIC
SV_HAS_TRAILING_NUL
SV_IMMEDIATE_UNREF
SV_MUTABLE_RETURN
SV_NOSTEAL
SV_SMAGIC
SV_UTF8_NO_ENCODING
SVfARGS
SVf_UTF8
SVf
SVt_INVLIST
SVt_IV
SVt_NULL
SVt_NV
SVt_PVAV
SVt_PVCV
SVt_PVFM
SVt_PVGV
SVt_PVGV
SVt_PVHV
SVt_PVIO
SVt_PVIV
SVt_PVLV
SVt_PVMG
SVt_PVNV
SVt_PV
SVt_REGEXP
SafeFree
Slab_Alloc
Slab_Free
Slab_to_ro
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StructCopy
SvCUR_set
SvCUR
SvEND
SvGAMAGIC
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SvIOK_UV
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SvIOK_off
SvIOK_only_UV
SvIOK_only
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SvIOK
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SvIV_nomg[5.009001]|p
SvIV_set||
SvIVx||
SvIV||
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SvIsCOW[5.008003]
SvLEN_set||
SvLEN||
SvLOCK[5.007003]
SvMAGIC_set[5.009003]|p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
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SvNOK_on||
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SvPOK_on||
SvPOKp||
SvPOK||
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SvPVX_mutable[5.009003]|p
SvPVX||
SvPV_const[5.009003]|p
SvPV_flags_const_nolen[5.009003]|p
SvPV_flags_const[5.009003]|p
SvPV_flags_mutable[5.009003]|p
SvPV_flags[5.007002]|p
SvPV_force_flags_mutable[5.009003]|p
SvPV_force_flags_nolen[5.009003]|p
SvPV_force_flags[5.007002]|p
SvPV_force_nolen[5.009003]|p
SvPV_force_nomg_nolen[5.009003]|p
SvPV_force_nomg[5.007002]|p
SvPV_force||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
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SvPV_nomg_nolen|5.013007||p
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Open Source Used In Cisco Identity Services Engine 3.2
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invlist_max
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is_safe_syscall[5.019004]
is_ssc_worth_it[

is_uni_alnum_lc[5.006000]
is_uni_alnumc_lc[5.017007]
is_uni_alnumc[5.017007]
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magic_cleararylen_p||
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magic_dump|5.006000|
magic_existspack||
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magic_getarylen||
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magic_getpack||
magic_getpos||
magic_getsig||
magic_getsubstr||
magic_gettaint||
magic_getuvar||
magic_getvec||
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magic_regdata_cnt||
magic_regdatum_get||
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magic_scalarpack||
magic_set_all_env||
magic_setarylen||
magic_setcolxfrm||
magic_setdbline||
magic_setdebugvar||
magic_setdefelem||
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my_snprintf[5.009004] \( \text{pvn} \)
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newANONSUB
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newAV
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newGP
newGVOP
newGVREF
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newGVgen
newHVREF
newHVhv[5.005000]
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newIO
newLISTOP
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sv_magicext|5.007003|
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sv_nolocking|5.007003|
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sv_nv|5.005000|
sv_only_taint_gmagic||n
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sv_pos_b2u|5.006000|
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sv_pos_u2b_flags|5.011005|
sv_pos_u2b_forwards||n
sv_pos_u2b_midway||n
sv_pos_u2b|5.006000|
sv_pvbyten_force|5.006000|
sv_pvbyten|5.006000|
sv_pvbyte|5.006000|
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sv_pvn_force||
sv_pvn_nomg|5.007003|5.005000|p
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sv_setiv||
sv_setnv_mg|5.006000|p
sv_setnv||
sv_setpvn_mg||5.004050||p
sv_setpvf_mg_nocontext||pvn
sv_setpvf_mg||5.006000|5.004000|pv
sv_setpvf_nocontext||vn
sv_setpvn||5.004000|v
sv_setpvn_mg||5.013006|
sv_setpvs||5.009004||p
sv_setpvs||
sv_setref_iv||
sv_setref_nv||
sv_setref_pvn||
sv_setref_pvs||5.024000|
sv_setref_pv||
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sv_setsv_cow||
sv_setsv_flags||5.007002|
sv_setsv_mg||5.004050||p
sv_setsv_nomg||5.007002||p
sv_setsv||
sv_setuv_mg||5.004050||p
sv_setuv||5.004000||p
sv_tainted||5.004000|
sv_taint||5.004000|
sv_true||5.005000|
sv_unglob||
sv_uni_display||5.007003|
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sv_unmagic||
sv_unref_flags||5.007001|
sv_unref||
sv_untaint||5.004000|
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sv_usepvn_flags||5.009004|
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xs_version_bootcheck

yyerror_pvn
yyerror_pv

yyerror

yylex

yyparse

yynlen

yywarn

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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}

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$define = [$1, $2] if m{^\s*#s*define\$s+\(\w+\)(?:\([^\)])?\)$s+\(.*\);}

if ($function) {
    if (/^\$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, ""] if m{^DPPPellites\(my_(\w+)\);};

$replace     = $1 if m{^\s*$rccs\s+Replace:\$s+/\d+/s+$rccs\s*$};
$replace{$2} = $1 if m{^\s*$rccs\s+\d+/\(\w+\)\)d+/\w+/s+$rccs\s*$};
$replace{$2} = $1 if m{^\s*$rccs\s+Replace\(\w+\) with \(\w+\)\)d+/\w+/s+$rccs\s*$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace \(\w+\) with \(\w+\)\d+/\w+/s+$rccs\s*$};

if (m{^\s*$rccs\s+\(\w+\)(?:\d+\)?\)s+\(\w+\)\d+/\w+/s+$rccs\s*$}) {
    my @dps = map { s\s+/\d+/g; $_ } split /,/, $3;
    my $d;
    for $d (map { s\s+/\d+/g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @dps;
    }
}

$need{$1} = 1 if m{^\s*#s*defined\(\$s+\(\w+\)(?:\d+\)?\)s+\(\w+\)\d+/\w+/s+$rccs\s*$}(
for (values %depends) {
    my %s;
    $_ = [sort grep !$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 "Depends on: `, join(’, ’, @{$depends{$f}}), ‘:\n" if exists $depends{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
}
print "No portability information available:\n" unless $info;
$count++;
}
$count or print "Found no API matching ‘$opt{api-info}’.'.";
print "\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};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  ['.join(', ', @flags).']' : "";
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
push @files, $_ unless $seen{$_}++; 
} 
else { warn "$_' is not a file.\n" } 
} 
else {  
my @new = grep { -f } glob $_
    or warn "$_ does not exist.\n";
push @files, grep { !$seen{$_}++ } @new; 
}
}
}
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 || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /\Q$ppport\E$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/ || !/($srcext)$/i;
        push @ file,  $out ? \@out : \@in , $_; 
    }
    if (@ARGV & & @out) { 
        warning("Skipping the following files (use --nofilter to avoid this):
            join "\n            ", @out); 
}
    @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {  
        warn "Unable to read from $filename: $!\n"
        next;

}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
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) {
$file{needs}{$_} = 'static' if exists $need{$_};
}

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}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$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 @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
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 ===");

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my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}})) {
  if ($API[$func]{varargs}) {
    unless ($API[$func]{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\s\])\s*}{'$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_'} . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  } else {
    warning("Uses Perl_Sfunc instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*aTHX_?\s*}{'$func$1('}g);
  }
}

for $func (sort keys %{$file{uses_replace}})) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}})) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(", ", @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}})) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API[$func]{todo}), ", even with "'$ppport'un";
    $warnings++;
  }
}
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";
        }
    }
    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 = "\n    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include \'$ppport'\n");    
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#\$HS*define\$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#\$HS*include.*\Q$ppport\E)/$pp/m)
        || ($c =~ s/^($HS*#\$HS*include.*XSUB.*\s*?)^/$1$pp/m)
        || ($c =~ s/^/$pp/);    
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \'$ppport'\n");    
        $file{changes} += ($c =~ s/^#\$HS*?#\$HS*include.*\Q$ppport\E.*?$LF//m);    
    }
}

# 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/$ccs$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");
}
my $s = $warnings != 1 ? 's' : "";
my $warn = $warnings ? " ($warnings warning$s)" : "";
info("Analysis completed$warn");

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") {
                info("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: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(
                \*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes: ");
            mydiff(
                \*STDOUT, $filename, $c);
        }
    } 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 try_use { eval "use @_;"; return $@ eq "" }

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 try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, {'STYLE' => 'Unified'});
        $diff = SYSLANG . $diff;
        --- $file
        +++ $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 rec_depend  
{
  my($func, $seen) = @_;  
  return () unless exists $depends{$func};  
  $seen = {%{$seen||{}}};  
  return () if $seen->{$func}++;  
  my %s;
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}} ) @{$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\n";

$ver =~ s/_//g;
$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 "cannot parse version $ver\n";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $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 "%d.%d.%d", $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;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;

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$usage =~ s/([A-Z])<([^>]*)>/SM$1S2SM$1/g;

print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };
  my($copy) = $self =~ /\^=head\d\s+COPYRIGHT\s*\^\w+\/=ms;
  $copy =~ s/^(?=\S+)/ /gms;
  $self =~ s/\^\w+\w+\$/copy/ms;
  $self =~ s/\^\w+\w+\$/ Skip.*(?=^__DATA__)/SKIP
  if (!@ARGV & & $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }; $
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval Devel::PPPort::VERSION < $VERSION) {
      die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
    Sorry, but this is a stripped version of $0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:
    
    \$^X \$0 --unstrip

END

/\w+ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{| / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]*)| ('[^"\\]*(?:\\\.[^"\\]*)*'| '.*') | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $\n";
print OUT "$pl$c\n";
exit 0;
}

__DATA__

*/
Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-cUECnWlj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/ppport.h
No license file was found, but licenses were detected in source scan.

=back

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at

=cut

Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-cUECnWlj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/VMS.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS
use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods
provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>,
which contains the entire set, and which is inherited by the modules for
other platforms. For further information, please see L<File::Spec::Mac>,
L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C:<ALL> tag.

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SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

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 * for the details of why the BSD license is compatible with the
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 */
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Please submit bug reports and patches to perlbug@perl.org.

SEE ALSO

L<File::Spec>

AUTHOR

o.flebbe@gmx.de

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SEE ALSO

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implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1175308926_1624357734.39/0/perl-PathTools-3.74-1.el8-1.src.rpm-cosi-expand-archive-
  cUECnWlj/PathTools-3.74.tar.gz-cosi-expand-archive-q79ojnSP/PathTools-3.74/lib/File/Spec/Epoc.pm

1.377 bootstrap-transfer 1.0.0

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1.378 powermock-module-testng-common

1.7.0

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Found in path(s):

/opt/cola/permits/1166802717_1621500055.2/0/powermock-module-testing-common-1-7-0-sources-1-jar/org/powermock/modules/testing/PowerMockTestCase.java

1.379 go-autorest-validation 0.3.1
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1.380 prometheus-node-exporter 1.3.1

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June 26, 2010

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

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

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

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

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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--------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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1.410 pysocks 1.6.8

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1.411 cockpit-bridge 211.3-1.el8
1.411.1 Available under license:

#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#
# package.json license: format uses https://spdx.org/licenses/ identifiers, which
# are mostly compatible with
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/#license-specification

import os
import sys
import json
import re
import subprocess
import argparse
from glob import glob

debian_dir = os.path.join(os.path.dirname(__file__), 'debian')
template_file = os.path.join(debian_dir, 'copyright.template')

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    p.add_argument('node_modules', help='path to node_modules directory')
    return p.parse_args()

def template_licenses(template):
    '''Return set of existing License: short names'''
    ids = set()
    for l in template.splitlines():
        if l.startswith('License: '):
            ids.add(l.split(None, 1)[1].lower())
    return ids

def module_license(moddir):
    '''Return License: short name for given module'''
    # First check if package.json has a "license" field
    try:
        with open(os.path.join(moddir, 'package.json'), encoding='UTF-8') as f:
            l = json.load(f)['license']
            if l.startswith('License: '):
                ids.add(l.split(None, 1)[1].lower())
    return ids

# https://github.com/novnc/noVNC/pull/819
def module_copyright(moddir):
    """Return Copyrights for given module""
    mod = os.path.basename(moddir)
copyrights = set()
    try:
        out = subprocess.check_output(['env', '-u', 'LANGUAGE', 'LC_ALL=C.UTF-8', 'grep', '-hri', 'copyright.*\[1-9]\[0-9\]+\|(c)\)', '-@license.*Copyright', '@font-face' in l or 'Binary file' in l:
            continue
        if not l.startswith('Inc.'):  # avoids some duplicated lines which only differ in trailing dot
            l = l.strip('*/

raw_text
continue  # this is from a changelog
# some noise fine-tuning for specific packages
if mod == 'bootstrap' and ('https://github.com' in l or l == 'Copyright 2015'):
    continue
if mod == 'patternfly':
    l = re.sub(' and licensed.*', '', l)
copyrights.add(' ' + l)  # space prefix for debian/copyright RFC822 format
except subprocess.CalledProcessError:
    pass
if not copyrights:
    # fall back to package.json's author
    try:
        with open(os.path.join(moddir, 'package.json')) as f:
            author = json.load(f)['author']

        # `author` can be either a string or a dict
        # https://flaviocopes.com/package-json/#author
        if isinstance(author, dict):
            author = author['name']
        assert isinstance(author, str)
copyrights.add(' ' + author)
    except (IOError, KeyError):
        pass
if not copyrights:
    raise SystemError('Did not find any copyrights in %s' % moddir)
return copyrights

#  
# main
#  

args = parse_args()

with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)
paragraphs = []
for module in sorted(os.listdir(args.node_modules)):
    if module == 'README': continue
    moddir = os.path.join(args.node_modules, module)
    license = module_license(moddir)
    if license.lower() not in license_ids:
raise KeyError('%s has license %s which is not in %s' % (module, license, template_file))
copyrights = module_copyright(moddir)
paragraphs.append("Files: node_modules/%s/*
Copyright: %s
License: %s" % (module, '\n'.join(sorted(copyrights)), license))

# force UTF-8 output, even when running in C locale
for l in template.splitlines():
    if '#NPM' in l:
        sys.stdout.buffer.write(''.join(paragraphs).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(l.encode('UTF-8'))
sys.stdout.buffer.write(b'
')
 sys.stdout.buffer.write(b'
')
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and
compressed JavaScript/HTML files built from pkg/* and node_modules/* with
node, npm, and webpack. Their copyrights and licenses are described below.
Rebuilding these requires internet access as that process needs to download
additional npm modules from the Internet, thus upstream ships the pre-minified
webpacks as part of the upstream release tarball so that the package can be
built without internet access and lots of extra unpackaged build dependencies.

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Files: src/common/cockpitknownhosts.c
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#NPM# semi-autogenerated records for node_modules/ go here

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1.413 python3-libselinux 2.9-3.el8

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1.414 libpmemblk 1.6.1-1.el8

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1.415 python-linux-procfs 0.6.3

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1.426 logstash-core-plugin-api 7.17.0

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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Janino - An embedded Java[TM] compiler

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Additional -
File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.438 logstash-filter-dissect 1.2.4

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1.439 cpio 2.12-10.el8

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1.440 rack 2.2.3

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1.441 fontpackages-filesystem 1.44-22.el8

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1.443 os-prober 1.74-6.el8

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1.444 libx11-common 1.6.8-3.el8

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File: Hashtables from ConvertFrom-json
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
  jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
  jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-
  jar/javassist/CtNewWrappedConstructor.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist.CtPrimitiveType.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
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- jar/javassist/util/ProxyObjectOutputStream.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/analysis/Type.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/compiler/ast/FieldDecl.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/convert/TransformCall.java
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- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/analysis/ControlFlow.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/compiler/SymbolTable.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/ClassFileWriter.java
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- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/EnclosingMethodAttribute.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/expr/FieldAccess.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/ DecompiledAttribute.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/compiler/ast/InstanceOfExpr.java
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- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/scopedpool/SoftValueHashMap.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/bytecode/Descriptor.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/compiler/CtNewMethod.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/compiler/ProceedHandler.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/convert/TransformFieldAccess.java
- * /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1.jar/javassist/CtNewConstructor.java
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jar/javassist/bytecode/DuplicateMemberException.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/CondExpr.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java
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* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/Callback.java
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
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* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
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, Vitezslav
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
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenerger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Pleslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
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Tarrall, Robert
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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
Blttermann, 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, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviuus, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
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1.453 rhn-client-tools 2.8.16-13.module+el8.1.0+3455+3ddf2832
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* /opt/cola/permits/1125845322_1611460207.35/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-
Xln9tNDR/perl-File-Path.spec
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NAME
File::Path - Create or remove directory trees

INSTALLATION
perl Makefile.PL
make
make test
make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
  ExtUtils::MakeMaker

To build:
  Cwd       File::Basename
  Exporter  File::Spec

To test:
  Carp      File::Spec::Functions
  Config    SelectSaver
  Cwd       Test::More
  Errno     Win32    # Windows only
  Fcntl

BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

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  bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David
Landgren (david at landgren dot net).

Current maintainers are Richard Elberger (riche at cpan dot org) and
James E Keenan (jkeenan at cpan dot org).

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Found in path(s):
  */opt/cola/permits/1125845322_1611460207.35/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Xln9NDR/File-Path-2.15.tar.gz-cosi-expand-archive-cZ4xVnp7/File-Path-2.15/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Create or remove directory trees'
author:
  - unknown
build_requires:
  Carp: '0'
  Config: '0'
  Errno: '0'
  ExtUtils::MakeMaker: '0'
  Fcntl: '0'
  File::Spec::Functions: '0'
  SelectSaver: '0'
  Test::Simple: '0.44'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: File-Path
no_index:
directory:
  - t
  - inc
requires:
  Cwd: '0'
  Exporter: '0'
  File::Basename: '0'
  File::Spec: '0'
resources:
  repository: https://github.com/jkeenan/File-Path.git
  version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1125845322_1611460207.35/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Xln9tNDR/File-Path-2.15.tar.gz-cosi-expand-archive-cZ4xNvp7/File-Path-2.15/META.yml

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

=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION

=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

@created = make_path('foo/bar/baz', '/zug/zwang');
@created = make_path('foo/bar/baz', '/zug/zwang', { verbose => 1,
    mode => 0711,
});
make_path('foo/bar/baz', '/zug/zwang', { chmod => 0777,
});

$removed_count = remove_tree('foo/bar/baz', '/zug/zwang', { verbose => 1,
    error => \my $err_list,
    safe => 1,
});

# legacy (interface promoted before v2.00)
@created = mkpath('/foo/bar/baz');
@created = mkpath('/foo/bar/baz', 1, 0711);
@created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
$removed_count = rmtree('foo/bar/baz', 1, 1);
$removed_count = rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
@created = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
$removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

=head1 DESCRIPTION

This module provides a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

=over

=item make_path( $dir1, $dir2, ... )

=item make_path( $dir1, $dir2, ..., \%opts )

The C<make_path> function creates the given directories if they don’t exist before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its
behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=over

=item mode => $num

The numeric permissions mode to apply to each created directory (defaults to C<0777>), to be modified by the current C<umask>. If the directory already exists (and thus does not need to be created), the permissions will not be modified.

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

Takes a numeric mode to apply to each created directory (not modified by the current C<umask>). If the directory already exists (and thus does not need to be created), the permissions will not be modified.

=item verbose => $bool

If present, will cause C<make_path> to print the name of each directory as it is created. By default nothing is printed.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise a fatal error that will cause the program to halt, unless trapped in an C<eval> block.

=item owner => $owner

=item user => $owner

=item uid => $owner
If present, will cause any created directory to be owned by \C<{$owner}>.
If the value is numeric, it will be interpreted as a uid; otherwise a
username is assumed. An error will be issued if the username cannot be
mapped to a uid, the uid does not exist or the process lacks the
privileges to change ownership.

Ownership of directories that already exist will not be changed.

\C<user> and \C<uid> are aliases of \C<owner>.

=element group => \$group

If present, will cause any created directory to be owned by the group
\C<{$group}>. If the value is numeric, it will be interpreted as a gid;
otherwise a group name is assumed. An error will be issued if the
group name cannot be mapped to a gid, the gid does not exist or the
process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

\make_path '/var/tmp/webcache', \{ owner=>'nobody', group=>'nogroup' \};

=back

=element mkpath( \$dir )

=element mkpath( \$dir, \$verbose, \$mode )

=element mkpath( [\$dir1, \$dir2,...], \$verbose, \$mode )

=element mkpath( \$dir1, \$dir2,..., \%opt )

The \C<mkpath()> function provide the legacy interface of
\C<make_path()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to \C<make_path()>.

=element remove_tree( \$dir1, \$dir2, ... )

=element remove_tree( \$dir1, \$dir2, ... , \%opts )

The \C<remove_tree> function deletes the given directories and any
files and subdirectories they might contain, much like the Unix
command \C<rm -rf> or the Windows commands \C<rmdir /s> and \C<rd /s>.

The function accepts a list of directories to be removed. (In point of fact,
it will also accept filesystem entries which are not directories, such as
regular files and symlinks. But, as its name suggests, its intent is to
remove trees rather than individual files.)

C<remove_tree()>’s behaviour may be tuned by an optional hashref appearing as the last parameter on the call. If an empty string is passed to C<remove_tree>, an error will occur.

B<NOTE:> For security reasons, we strongly advise use of the hashref-as-final-argument syntax -- specifically, with a setting of the C<safe> element to a true value.

    remove_tree( $dir1, $dir2, ....,

    {  
        safe => 1,
        ...     # other key-value pairs
    },
    )

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application’s scratch directory.

    remove_tree( '/tmp', {keep_root => 1} );

=item result => \$res

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

    remove_tree( '/tmp', { result => \my $list } );
    print "unlinked $_.\n" for @$list;

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmmtree( $dir )

=item rmmtree( $dir, $verbose, $safe )

=item rmmtree( [ $dir1, $dir2,...], $verbose, $safe )

=item rmmtree( $dir1, $dir2,..., \%opt )

The C<rmmtree()> function provide the legacy interface of C<remove_tree()> with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to C<remove_tree()>.

B<NOTE:> For security reasons, we strongly advise use of the hashref-as-final-argument syntax, specifically with a setting of the C<safe> element to a true value.

    rmmtree( $dir1, $dir2, .....,
    {  
    safe => 1, 
    ...
    # other key-value pairs
}
ERROR HANDLING

The following error handling mechanism is consistent throughout all code paths EXCEPT in cases where the ROOT node is nonexistent. In version 2.11 the maintainers attempted to rectify this inconsistency but too many downstream modules encountered problems. In such case, if you require root node evaluation or error checking prior to calling C<make_path> or C<remove_tree>, you should take additional precautions.

If C<make_path> or C<remove_tree> encounters an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```perl
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if ($err && @$err) {
  for my $diag (@$err) {
    my ($file, $message) = %$diag;
    if ($file eq '') {
      print "general error: $message\n";
    } else {
      print "problem unlinking $file: $message\n";
    }
  }
} else {
  print "No error encountered\n";
}
```
Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are not exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's C<rmtree> function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:
Additionally, unless the C<safe> parameter is set (or the third parameter in the traditional interface is TRUE), should a C<remove_tree> be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

The following CVE reports were previously filed against File-Path and are believed to have been addressed:

=item *
L<http://cve.circl.lu/cve/CVE-2004-0452>

=item *
L<http://cve.circl.lu/cve/CVE-2005-0448>

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The C<chmod()> logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the C<stat()> that decides the inode is a directory and the C<chmod()> that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=item mkdir [path]: [errmsg] (SEVERE)
C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling C<Cwd::getcwd>, but the call failed for some reason. No attempt will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having successfully obtained its name via C<getcwd>), however, the call failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then moved into it. It then performed a C<stat> on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and
the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed
everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because some objects that were unable to be removed remain in the directory, or it could be a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

=item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

=item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

=item unable to map [owner] to a uid, ownership not changed”);

C<make_path> was instructed to give the ownership of created directories to the symbolic name [owner], but C<getpwnam> did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

=item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back
SEE ALSO

L<$File::Remove$

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in L<$File::Path$>.

L<$File::Find::Rule$

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swathes alone), L<$File::Find::Rule$> offers a convenient and flexible approach to examining directory trees.

BUGS AND LIMITATIONS

The following describes L<$File::Path$> limitations and how to report bugs.

MULTITHREADED APPLICATIONS

L<$File::Path$> C<rmtree> and C<remove_tree> will not work with multithreaded applications due to its use of C<chdir>. At this time, no warning or error is generated in this situation. You will certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the L<$File::Path::Tiny$> module for functionality similar to L<$File::Path$> but which does not C<chdir>.

NFS Mount Points

L<$File::Path$> is not responsible for triggering the automounts, mirror mounts, and the contents of network mounted filesystems. If your NFS implementation requires an action to be performed on the filesystem in order for L<$File::Path$> to perform operations, it is strongly suggested you assure filesystem availability by reading the root of the mounted filesystem.

REPORTING BUGS
Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than including them inline in the web post or the body of the email.

You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

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=back

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=cut

Found in path(s):
* /opt/cola/permits/1125845322_1611460207.35/0/perl-File-Path-2.15-2.el8-1.src.rpm-cosi-expand-archive-Xln9tNDR/File-Path-2.15.tar.gz-cosi-expand-archive-cZ4xNvp7/File-Path-2.15/lib/File/Path.pm

1.455 system-componentmodel-composition

4.0.0.0

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.456 ruby2_keywords 0.0.5

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

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@end example

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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 */
/**
 * OpenID Connect client information. Encapsulates the registration and
 * metadata details of an OpenID Connect client:
 *
 * <ul>
 *     <li>The client identifier.</li>
 *     <li>The client OpenID Connect metadata.</li>
 *     <li>The optional client secret for a confidential client.</li>
 *     <li>The optional registration URI and access token if dynamic client
 *         registration is permitted.</li>
 * </ul>

* <p>Related specifications:

*
* <ul>
*     <li>OpenID Connect Dynamic Client Registration 1.0.
*     <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
*         3.2.1.
*     <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC 7592), section 3.
* </ul>
*/

Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java
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Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/META-INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml
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Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java
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* specific language governing permissions and limitations under the License.
*/
/**
* Creates a new authenticated pushed authorisation request for a
* confidential client.
*
* @param uri          The URI of the token endpoint. May be
*                     { @code null} if the {link #toHTTPRequest}
*                     method will not be used.
* @param clientAuth   The client authentication. Must not be
*                     { @code null}.
* @param authzRequest The authorisation request. Must not be
*                     { @code null}.
*/

Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java

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*/
/**
* Creates a new request object POST request where the parameters are
* submitted as plain JSON object, and the client authenticates by
* means of mutual TLS. TLS also ensures the integrity and
* confidentiality of the request parameters. This method is not
* standard.
*
* @param uri The URI of the request object endpoint. May
* be { @code null} if the
* { @link #toHTTPRequest} method will not be
* used.
* @param tlsClientAuth The mutual TLS client authentication. Must
* not be { @code null}.
* @param requestJSONObject The request parameters as plain JSON
* object. Must not be { @code null}.
*/

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jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsSet.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidenceType.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/openid/connect/sdk/claims/AuthorizedParty.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/openid/connect/sdk/claims/Gender.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/oauth2/oauth2/SoftwareVersion.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/oauth2/oauth2/assertions/jwt/JWTAssertionFactory.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringOperation.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyConfiguration.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/oauth2/oauth2/SuccessResponse.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources
jar/com/nimbusds/oauth2/oauth2/util/TLSVersion.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources

jar/com/nimbusds/openid/connect/sdk/id/SIVAESBasedPairwiseSubjectCodec.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/util/OrderedJSONObject.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/claims/ExternalClaims.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/AuthenticationSuccessResponse.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponse.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/Role.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/token/TypelessAccessToken.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/id/Actor.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/claims/LogoutTokenClaimsSet.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/token/BearerTokenError.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/claims/IDTokenClaimsSet.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/assertions/saml2/BadSAML2AssertionException.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformationResponse.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/Prompt.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/AuthenticationErrorResponse.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/rp/package-info.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyViolationException.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/ParseException.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionFactory.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/auth/verifier/JWTAuthenticationClaimsSetVerifier.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/BackChannelLogoutRequest.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/jarm/JARMClaimsVerifier.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/validators/AbstractJWTValidator.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/TokenIntrospectionSuccessResponse.java
* /opt/cola/permits/1192756271_1629729305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/claims/Address.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/op/ACRRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2-sdk/AAbstractOptionallyAuthenticatedRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/UserInfoRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/ClaimRequirement.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/device/DeviceCode.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/JWTBearerGrant.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/id/State.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/jarm/JARMUtils.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/SerializeException.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationSuccessResponse.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/CommonClaimsSet.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/client/ClientReadRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/http/HTTPEndpoint.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/util/ContentTypeUtils.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/util/date/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/secevent/sdk/claims/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationSuccessResponse.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/PushedAuthorizationResponse.java

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 * License at
 */
Token revocation request. Used to revoke an issued access or refresh token.

Example token revocation request for a confidential client:

```
POST /revoke HTTP/1.1
Host: server.example.com
Content-Type: application/x-www-form-urlencoded
Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW

token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token
```

Example token revocation request for a public client:

```
POST /revoke HTTP/1.1
Host: server.example.com
Content-Type: application/x-www-form-urlencoded

token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token&client_id=123456
```

Related specifications:

- OAuth 2.0 Token Revocation (RFC 7009), section 2.1.

Creates a new token revocation request for a confidential client.

@type uri The URI of the token revocation endpoint. May be
    { @code null } if the { @link #toHTTPRequest } method
    will not be used.

@type clientAuth The client authentication. Must not be
    { @code null }.

@type token The access or refresh token to revoke. Must not be
    { @code null }.
// confidential client

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* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainRetriever.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultEntityStatementRetriever.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidSoftwareStatementException.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/rp/statement/PolicyOperationFactory.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationMetadataType.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainSet.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityMetadataValidator.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/registration/PackageInfo.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/dpop/DefaultDPoPJWTFactory.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
* Client information. Encapsulates the registration and metadata details of
* an OAuth 2.0 client:
* 
* <ul>
*     <li>The client identifier.
*     <li>The client metadata.
*     <li>The optional client secret for a confidential client.
*     <li>The optional registration URI and access token if dynamic client
*         registration is permitted.
* </ul>
*
* Related specifications:
* 
* <ul>
*     <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
*         3.2.1.
*     <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
*         7592), section 3.
* </ul>
*/

// The client must by unambiguously public, else it is marked as confidential

Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java

1.476 go-kit 0.11.0
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1.477 coreutils 8.30 8.el8

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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BSON library for Go

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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# 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) $(DESTDIR)$(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

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Index: tdb/a/tdb.c
===================================================================
--- tdb/a/tdb.c
+++ tdb/a/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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It is part of the main e2fsprogs distribution, which can be found at:

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1.512 javassist 3.26.0-GA

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Found in path(s):
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CtField.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/ProxyFactory.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/ClassFile.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/VstjTypeChecker.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/Frame.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/FieldAccess.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/TypeChecker.java
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*/

Found in path(s):
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-
  jar/javassist/bytecode/annotation/StringMemberValue.java
1.513 perl-pod-usage 1.69-395.el8

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.526 psutil 5.4.3
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1.527 backbone-forms-bootstrap 0.14.0

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1.528 grpc-go 1.40.0

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1.538 linode-linodego 1.1.0
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1.540 python-newt 0.52.20-11.el8

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/><n
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

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  </xsl:variable>

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    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$isc.copyright.text"/>
    </xsl:call-template>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:text&gt;Copyright (C) &lt;xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="ub:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright"/>
    </xsl:call-template>
  </xsl:variable>
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1.544 requests- unixsocket 0.1.5

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jar/io/netty/buffer/PooledHeapByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunk.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
1.552 logstash-output-redis 5.0.0

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1.553 system-reflection-typeextensions

5.0.0.0

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/opt/cola/permits/1354612400_1658345671.9597113/0/powershell-package-tgz/powershell-preview-7.1.0_rc.2-1.centos.8.x86_64.rpm: binary file matches

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* /bin/grep

1.554 joni 2.1.31

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* /opt/cola/permits/1125858997_1611464624.02/0/joni-2-1-31-sources-1-jar/org/joni/ByteCodePrinter.java
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1.555 elfutils 0.182-3.el8

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 * symbol_type_info.c
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parser_bin_tool_readme.html

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* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parseinfo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/datastore.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/structdef.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/ActionTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/fixupParserExtension.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/LinkTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Makefile
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extractFuncCalls.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/codegen.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/StructFormat.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Setup.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/struct_unpack.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/gdblist.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/batStructOffset.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/CmdSelector.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/parserBinTool.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/SymbolTable.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extractAddress.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Traverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/graphAlgo.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/actionenum.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/handler.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Condition.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Traverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/dlutils.py

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*/
* lua_ex_api.c
*
1.556 mtr 0.92 3.el8

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1.558 go-openapi-swag 0.19.15

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1.559 i18n 2.0.4

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Files: doc/html/NCURSES-Programming-HOWTO.html
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--- vile: txtmode file-encoding=utf-8

1.561 gcc-gdb-plugin 8.3.1-5.el8

1.561.1 Available under license :

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Version 3, 29 June 2007

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Note that this document is broken into multiple sections, each of which describes the dependencies of a different "platform release" of Nokogiri.

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<!-- toc -->

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  * [jing](#jing)
  * [nekodtd](#nekodtd)
  * [nekohtml](#nekohtml)
  * [xalan](#xalan)
  * [xerces](#xerces)
  * [xml-apis](#xml-apis)

<!-- tocstop -->

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You can double-check the dependencies in your gem file by examining the output of `nokogiri -v` after installation, which will emit the complete set of libraries in use (for versions `>= 1.11.0.rc4`).

In particular, I'm sure somebody's lawyer, somewhere, is going to freak out that the LGPL appears in this file; and
so I’d like to take special note that the dependency covered by LGPL, `libiconv`, is only being redistributed in the native Windows and native Darwin platform releases. It’s not present in default, Java, or native Linux releases.

## Platform Releases

### Default platform release ("ruby")

The default platform release distributes the following dependencies in source form:

- `[libxml2](#libxml2)
- `[libxslt](#libxslt)
- `[libgumbo and nokogumbo](#libgumbo-and-nokogumbo)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "ruby" for its "platform" attribute.

### Native Linux platform releases ("x86_64-linux" and "arm64-linux")

The native Linux platform release distributes the following dependencies in source form:

- `[libxml2](#libxml2)
- `[libxslt](#libxslt)
- `[libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- `[zlib](#zlib)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-linux" or "x86-linux" for its "platform.cpu" attribute.

### Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")

The native Darwin platform release distributes the following dependencies in source form:

- `[libxml2](#libxml2)
- `[libxslt](#libxslt)
- `[libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- `[zlib](#zlib)
- `[libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-darwin" or "arm64-darwin" for its "platform.cpu" attribute. Darwin is also known more familiarly as "OSX" or "macOS" and is the operating system for many Apple computers.

### Native Windows platform releases ("x86-mingw32" and "x64-mingw32")

---

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 7708
The native Windows platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x64-mingw32" or "x86-mingw32" for its "platform.cpu" attribute.

### Java (JRuby) platform release ("java")

The Java platform release distributes the following dependencies as compiled jar files:

- [isorelax](#isorelax)
- [jing](#jing)
- [nekodtd](#nekodtd)
- [nekohtml](#nekohtml)
- [xalan](#xalan)
- [xerces](#xerces)
- [xml-apis](#xml-apis)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "java" for its "platform.os" attribute.

## Appendix: Dependencies’ License Texts

This section contains a subsection for each potentially-distributed dependency, which includes the name of the license and the license text.

Please see previous sections to understand which of these potential dependencies is actually distributed in the gem file you're downloading and using.

### libgumbo and nokogumbo

Apache 2.0

https://github.com/rubys/nokogumbo/blob/f6a7412/LICENSE.txt

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Version 2.0, January 2004
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### libxml2

MIT

http://xmlsoft.org/

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### libxslt

MIT

http://xmlsoft.org/libxslt/

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### libiconv

LGPL

https://www.gnu.org/software/libiconv/

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package main

import (
"bufio"
"bytes"
"flag"
"fmt"
"io"
"log"
"os"
"path/filepath"
"strings"
)

const crUsageString = `xb copyright [options] <path>.

The xb copyright command adds a copyright remark to all go files below path.

-h prints this message and exits
`

func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
}

const copyrightText = `Copyright 2014-2020 Ulrich Kunitz. All rights reserved.
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``

func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintf(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if err = fmt.Fprintf(buf, "/*", s); err != nil {
        panic(err)
    }
    return buf.String()
var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprint(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {
            s := strings.TrimSpace(txt)
            if len(s) == 0 {
                del = false
            }
            continue
        }
        fmt.Fprintln(out, txt)
    }
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
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1.571 samba 4.14.5-9.el8_5
1.571.1 Available under license:
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1284095607_1657022569.2214093/0/samba-client-libs-4-14-5-9-el8-5-x86-64-zip/samba-client-
libs-4.14.5-9.el8_5.x86_64.rpm: binary file matches

Found in path(s):
* /bin/grep

1.572 python3-audit 3.0-
0.17.20191104git1c2f876.el8
1.572.1 Available under license:

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1.582 azure-eventhubs 2.3.2
1.582.1 Available under license:

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/ *
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*/
/**
 * Send an '{@link EventData} with a partitionKey' to EventHub. All '{@link EventData}'s with a partitionKey are guaranteed to land on the same partition.
 * This send pattern emphasize data correlation over general availability and latency.
 * <p>
 * There are 3 ways to send to EventHubs, each exposed as a method (along with its sendBatch overload):
 * <pre>
 * i.   '{@link #send(EventData)} or '{@link #send(Iterable)}
 * ii.  '{@link #send(EventData, String)} or '{@link #send(Iterable, String)}
 * iii. '{@link PartitionSender#send(EventData)} or '{@link PartitionSender#send(Iterable)}
 * </pre>
 * <p>
 * Use this type of Send, if:
 * <pre>
 * i.  There is a need for correlation of events based on Sender instance; The sender can generate a UniqueId and set it as partitionKey - which on the received Message can be used for correlation
 * ii. The client wants to take control of distribution of data across partitions.
 * </pre>
 * <p>
 * Multiple PartitionKey’s could be mapped to one Partition. EventHubs service uses a proprietary Hash algorithm to map the PartitionKey to a PartitionId.
* Using this type of Send (Sending using a specific partitionKey), could sometimes result in partitions which are not evenly distributed.
* @param eventData the { @link EventData} to be sent.
* @param partitionKey the partitionKey will be hash'ed to determine the partitionId to send the eventData to. On the Received message this can be accessed at { @link EventData.SystemProperties#getPartitionKey()}
* @return a CompletableFuture that can be completed when the send operations is done.,
* @see #send(EventData)
* @see PartitionSender#send(EventData)
*/

Found in path(s):
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/EventHubClient.java
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*/

Found in path(s):
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/EventHubException.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/Operation.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/TrackingUtil.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/WebSocketProxyConnectionHandler.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/ConnectionStringBuilder.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/EventHubRuntimeInformation.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/WebSocketConnectionHandler.java
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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/impl/IllegalConnectionStringFormatException.java
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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/IllegalEntityException.java
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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/impl/EventHubClientImpl.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/impl/ClientEntity.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/impl/MessageSender.java
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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/impl/EventDataImpl.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/ReceiverOptions.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/PartitionRuntimeInformation.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/ReceiverRuntimeInformation.java
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources.jar/com/microsoft/azure/eventhubs/TransportType.java
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1.583 networkmanager-team 1.22.8-4.el8

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* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
  jar/com/sun/jersey/api/client/filter/ConnectionListenerFilter.java
* /opt/cola/permits/1001166996_1654022918.7682884/0/jersey-client-1-19-4-sources-
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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
THREADCPPFLAGS = -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): $(srcdir)/%.c
S($COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
S($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/\(^\*\)/\1.o $@ : /g\" > $@; \[ -s $@ \] || rm -f $@''

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

## Versioned libraries rules

%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
S($RM) $@ && ln -s \$\{<F\} $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
S($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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* /opt/cola/permits/1135975881_1654022862.0537393/0/javax-websocket-api-1-1-sources-3-
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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string

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1.624 jackson-annotations 2.10.4

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1.627 cockpit-packagekit 211.3-1.el8

1.627.1 Available under license:

```python
#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#
# package.json license: format uses https://spdx.org/licenses/ identifiers, which
# are mostly compatible with
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/#license-specification

import os
import sys
import json
import re
import subprocess
import argparse
from glob import glob

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    p.add_argument('node_modules', help='path to node_modules directory')
    return p.parse_args()

def template_licenses(template):
    '''Return set of existing License: short names'''
    ids = set()
    for l in template.splitlines():
        if l.startswith('License: '):
            ids.add(l.split(None, 1)[1].lower())
    return ids

def main():
    template_file = os.path.join(debian_dir, 'copyright.template')
    template = open(template_file).read()

    args = parse_args()
    node_modules = os.path.abspath(args.node_modules)

    for f in glob(node_modules + '/**/*.js', recursive=True):
        module = os.path.splitext(os.path.basename(f))[0]
        module = re.sub('[<>\s]', '', module)

        data = json.loads(open(f).read())
        license = data.get('license')
        if license:
            print(f'License: {license}

        # Add the module name if it is not already in the template.
    if module not in template:
        template += module

    template = template_licenses(template)

    debian_dir = os.path.join(os.path.dirname(__file__), 'debian')
    copyright_file = os.path.join(debian_dir, 'copyright')

    with open(copyright_file, 'w') as f:
        f.write(template)

if __name__ == '__main__':
    main()
```

def module_license(moddir):
    """Return License: short name for given module""

    # First check if package.json has a "license" field
    try:
        with open(os.path.join(moddir, 'package.json'), encoding='UTF-8') as f:
            l = json.load(f)['license']
            if l.startswith('(MIT OR '):
                return 'MIT'
            if l == 'MPL 2.0':
                # https://github.com/novnc/noVNC/pull/819
                return 'MPL-2.0'
            return l
    except (IOError, KeyError):
        pass

    # *LICENSE*/COPYING/README
    if os.path.exists(os.path.join(moddir, 'MIT-LICENSE.txt')):
        return 'MIT'
    try:
        with open((glob(os.path.join(moddir, 'LICENSE*')) +
                   glob(os.path.join(moddir, 'COPYING')))[0]) as f:
            text = f.read()
            if 'Permission is hereby granted,' in text and 'THE SOFTWARE IS PROVIDED "AS IS"' in text:
                return 'MIT'
    except IndexError:
        pass
    raise SystemError('Could not determine license from %s' % moddir)

def module_copyright(moddir):
    """Return Copyrights for given module""

    mod = os.path.basename(moddir)
    copyrights = set()
    try:
        out = subprocess.check_output(['env', '-u', 'LANGUAGE', 'LC_ALL=C.UTF-8', 'grep', '-hri', 'copyright.*\([1-9][0-9]\+\|(c)\)'],
                                       cwd=moddir).decode('UTF-8')
        for l in out.splitlines():
            # ignore compiled .css.map files
            if l.startswith('{"version":') or '*/!/' in l:
                continue
            # weed out some noise
            if 'grunt.template.today' in l or 'copyright-mark' in l or '@font-face' in l or 'Binary file' in l:
                continue
            if '<name of author>' in l:
                continue
            # for license
            if 'Permission is hereby granted,' in l:
                break
            copyrights.add(l[2:].strip())
    except:  # child processes will raise errors
        pass
    return copyrights

    return copyrights
continue
l = l.replace('<copyright>', '').replace('</copyright>', '')
l = l.replace('&copy;', '(c)').replace('copyright = ', '')
l = re.sub('@license.*Copyright', '', l)
l = l.strip(' \*/
')
if not l.endswith('Inc. '):
    # avoids some duplicated lines which only differ in trailing dot
    l = l.strip('.
')
if l.startswith('u''') or l.startswith('u"'):  # Python unicode prefix
    l = l[2:]  
if 'Fixes #' in l:
    continue  # this is from a changelog
# some noise fine-tuning for specific packages
if mod == 'bootstrap' and ('https://github.com' in l or l == 'Copyright 2015'):
    continue
if mod == 'patternfly':
    l = re.sub(' and licensed.*', '', l)
copyrights.add(' ' + l)  # space prefix for debian/copyright RFC822 format
except subprocess.CalledProcessError:
    pass
if not copyrights:
    # fall back to package.json's author
    try:
        with open(os.path.join(moddir, 'package.json')) as f:
            author = json.load(f)['author']

            # `author` can be either a string or a dict
            # https://flaviocopes.com/package-json/#author
            if isinstance(author, dict):
                author = author['name']
            assert isinstance(author, str)

            copyrights.add(' ' + author)
    except (IOError, KeyError):
        pass
if not copyrights:
    raise SystemError('Did not find any copyrights in %s' % moddir)
return copyrights

#  # main  
#  

args = parse_args()
with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)
paragraphs = []
for module in sorted(os.listdir(args.node_modules)):
    if module == 'README':
        continue
    moddir = os.path.join(args.node_modules, module)
    license = module_license(moddir)
    if license.lower() not in license_ids:
        raise KeyError('%s has license %s which is not in %s' % (module, license, template_file))
    copyrights = module_copyright(moddir)
    paragraphs.append('''Files: node_modules/%s/*
Copyright: %s
License: %s''' % (module, '
'.join(sorted(copyrights)), license))

# force UTF-8 output, even when running in C locale
for l in template.splitlines():
    if '#NPM' in l:
        sys.stdout.buffer.write('

'.join(paragraphs).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(l.encode('UTF-8'))
        sys.stdout.buffer.write(b'
')

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and compressed JavaScript/HTML files built from pkg/* and node_modules/* with node, npm, and webpack. Their copyrights and licenses are described below. Rebuilding these requires internet access as that process needs to download additional npm modules from the Internet, thus upstream ships the pre-minified webpacks as part of the upstream release tarball so that the package can be built without internet access and lots of extra unpackaged build dependencies.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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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1.633 microcode-ctl 20191115-4.el8

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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */

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DOM Level 3 LS CR - Experimental.

* Create a new `<code>LSParser</code>`. The newly constructed parser may
* then be configured by means of its `<code>DOMConfiguration</code>`
* object, and used to parse documents by means of its `<code>parse</code>`
* method.

* @param mode  The `<code>mode</code>` argument is either
  * `<code>MODE_SYNCHRONOUS</code>` or `<code>MODEASYNCHRONOUS</code>`, if
  * `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
  * `<code>LSParser</code>` that is created will operate in synchronous
  * mode, if it's `<code>MODEASYNCHRONOUS</code>` then the
  * `<code>LSParser</code>` that is created will operate in asynchronous
  * mode.

* @param schemaType  An absolute URI representing the type of the schema
  * language used during the load of a `<code>Document</code>` using the
  * newly created `<code>LSParser</code>`. Note that no lexical checking
  * is done on the absolute URI. In order to create a
  * `<code>LSParser</code>` for any kind of schema types (i.e. the
  * LSParser will be free to use any schema found), use the value
  * `<code>null</code>`.

* Note:  For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
  * , applications must use the value
  * `<code>http://www.w3.org/2001/XMLSchema</code>`. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
  * applications must use the value
  * `<code>http://www.w3.org/TR/REC-xml</code>`. Other Schema languages
  * are outside the scope of the W3C and therefore should recommend an
  * absolute URI in order to use this method.

* @return  The newly created `<code>LSParser</code>` object. This
  * `<code>LSParser</code>` is either synchronous or asynchronous
  * depending on the value of the `<code>mode</code>` argument.

* Note:  By default, the newly created `<code>LSParser</code>`
  * does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
  * the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'" configuration parameter is `<code>null</code>`. However, implementations
  * may provide a default error handler at creation time. In that case,
  * the initial value of the `<code>error-handler</code>` configuration
  * parameter on the new created `<code>LSParser</code>` contains a
  * reference to the default error handler.

* @exception DOMException
  * NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
  * not supported.
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*/

/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Unique Particle Attribution, Particle Derivation (Restriction),
*/
* Element Declarations Consistent.

*/

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Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/traversers/XSAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/XSParticle.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/stax/DefaultNamespaceContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xrces/util/XSException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dt/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/EncodingMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xercesimpl/xni/parser/XMLDTDSchemaImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/SecurityManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/SchemaSymbols.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/parser/XMLComponent.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/XMLLocatorWrapper.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/StAXLocationWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/WMLDoElement.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
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- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/xerces/stax/events/EndElementImpl.java
- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/xerces/impl/dv/xx/QNameDV.java
- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/wml/dom/WMLBrElementImpl.java
- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/html/dom/HTMLScriptElementImpl.java
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- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/xerces/impl/dv/xs/StringDV.java
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- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/html/dom/HTMLButtonElementImpl.java
- /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/obj/apache/xerces/impl/xs/identity/Field.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xx/opti/TextImpl.java
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jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
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jar/org/apache/xerces/impl/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
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jar/org/apache/xerces/impl/msg/XPointerMessages.properties
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jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
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jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.658 glib-networking 2.56.1 1.1.el8

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notice like this when it starts in an interactive mode:

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@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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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.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.678 jnr-netdb 1.2.0

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Found in path(s):
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NetDBFilter.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NetDBEntry.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/StringUtil.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NativeServicesDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/IANAServicesDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NativeProtocolsDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/FileServicesDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/IANAProtocolsDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NetDBParser.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/NetDBIterator.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/Service.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/FileProtocolsDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/ProtocolsDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/ServicesDB.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/Protocol.java
* /opt/cola/permits/1257321065_1642800628.58/0/jnr-netdb-1-2-0-sources-jar/jnr/netdb/Protocols.java

1.679 elasticsearch-nio 7.17.0

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1.680 activation 1.2.1

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1.681 grub2-efi-x64 2.02-87.el8_2

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1.682 system-componentmodel-annotations

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this <br/>
 * constructor</i>. Instead, they must use the <br/>
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]<br/>
 * version.<br/>
 *
 * @param mv <br/>
 * the MethodVisitor to send the resulting inlined <br/>
 * method code to (use null for none). <br/>
 * @param access <br/>
 * the method's access flags (see <tt>Access.</tt>). This <br/>
 * parameter also indicates if the method is synthetic and/or <br/>
 * deprecated.<br/>
 * @param name <br/>
 * the method's name. <br/>
 * @param desc <br/>
 * the method's descriptor (see <tt>Type</tt>).<br/>
 * @param signature <br/>
 * the method's signature. May be <tt>null</tt>.<br/>
 * @param exceptions <br/>
 * the internal names of the method's exception classes (see <br/>
 * <tt>Type</tt>'s <tt>getInternalName</tt>). May be <br/>
 * <tt>null</tt>.<br/>
 * @throws IllegalStateException <br/>
 * If a subclass calls this constructor.<br/>
 */

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* Creates a new [link GeneratorAdapter]. <i>Subclasses must not use this
constructor</i>. Instead, they must use the
* [link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [link Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*
/**

* Constructs a new [@link ClassNode]. *Subclasses must not use this
* constructor</i>. Instead, they must use the [@link ClassNode(int)]
* version.
*
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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*/
/***/
* Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
not use this constructor</i>. Instead, they must use the
* [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
* version.
 *
* @param typeRef
* a reference to the annotated type. See [@link TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java
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/*
/**
 * Creates a new AnalyzerAdapter. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * AnalyzerAdapter(int, String, int, String, String, MethodVisitor)
 * version.
 * 
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see @link Opcodes). 
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see @link Type Type).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/SharedAccessPolicy.java
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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/StorageCredentialsSharedAccessSignature.java
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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/core/StorageErrorHandler.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/RequestResult.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/table/TableServiceEntity.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/table/TableOperationType.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/RetryPolicy.java
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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources.jar/com/microsoft/azure/storage/blob/ContainerListingDetails.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources.jar/com/microsoft/azure/storage/analytics/LogRecord.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources.jar/com/microsoft/azure/storage/file/DeleteShareSnapshotsOption.java
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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources.jar/com/microsoft/azure/storage/DoesServiceRequest.java
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* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/SharedAccessHeaders.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-jar/com/microsoft/azure/storage/DeleteRetentionPolicy.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-
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jar/com/microsoft/azure/storage/file/HandleListHandler.java
* /opt/cola/permits/1243282840_1639631819.61/0/azure-storage-8-6-6-sources-
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jar/com/microsoft/azure/storage/blob/SubStream.java

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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 */

/* checkTag : validation tool for libzstd
 * command :
 * $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * The tag is then compared to zstd version number.
 * They are compatible if first 3 digits are identical.
 * Anything beyond that is free, and doesn't impact validation.
 * Example : tag v1.8.1.2 is compatible with version 1.8.1
 * When tag and version are not compatible, program exits with error code 1.
 * When they are compatible, it exists with a code 0.
 * checkTag is intended to be used in automated testing environment.
 */

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.702 openssl 1.0.1j

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1.706 h2jaqu 1.2.140

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This is code was based on:
- Stuart Langridge's SortTable (kryogenix.org/code/browser/sorttable)
- Mike Hall's draggable class (http://www.brainjar.com/dhtml/drag/)
- A discussion of permuting table columns on comp.lang.java

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1.715 udev systemd-219-62.el7

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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_nicstart() 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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1.728 lua 5.3.3

1.729 perl-carp 1.42-396.el8

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---
abstract: 'alternative warn and die for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Carp
no_index:
directory:
  - t
  - inc
requires:
  Config: '0'
  Exporter: '0'
  ExtUtils::MakeMaker: '0'
  IPC::Open3: '1.0103'
  Test::More: '0.47'
  overload: '0'
  strict: '0'
  warnings: '0'
version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
  * /opt/cola/permits/1175308766_1624358959.25/0/perl-Carp-1.42-396.el8-1.src.rpm-cosi-expand-archive-Carp-1.38.tar.gz-cosi-expand-archive-Carp-1.38/META.yml
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  * /opt/cola/permits/1175308766_1624358959.25/0/perl-Carp-1.42-396.el8-1.src.rpm-cosi-expand-archive-Carp-1.38/perl-Carp.spec
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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck, longmess and shortmess not exported by default
use Carp qw(cluck longmess shortmess);
cluck "This is how we got here!"

$long_message = longmess( "message from cluck() or confess()" );
$short_message = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like C<die()> or C<warn()>,
but with a message which is more likely to be useful to a user of your module. In the case
of C<cluck()> and C<confess()> that context is a summary of every call in the call-stack;
C<longmess()> returns the contents of the error message.

For a shorter message you can use C<carp()> or C<croak()> which report the error as being
from where your module was called. C<shortmess()> returns the contents of this error message.
There is no guarantee that that is where the error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E>
in the course of assembling its error messages. This means that a
C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error information
held in those variables, if it is required to augment the error message, and if the code calling
C<Carp> left useful values there. Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by changing some
global variables in the C<Carp> namespace. See the section on CGLOBALS VARIABLES> below.

Here is a more complete description of how C<carp()> and C<croak()> work.
What they do is search the call-stack for a function call stack where they have not been
told that there shouldn't be an error. If every call is marked safe, they give up and give a
full stack backtrace instead. In other words they presume that the first likely looking potential
suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe
by inclusion in C<@CARP_NOT>, or
(if that array is empty) C<@ISA>.  The ability to override what
@ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive.  If A trusts B, and B
trusts C, then A trusts C.  So if you do not override C<@ISA>
with C<@CARP_NOT>, then this trust relationship is identical to,
"inherits from".

=item 4.

Any call from an internal Perl module is safe.  (Nothing keeps
user modules from marking themselves as internal to Perl, but
this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe.
(This rule is what keeps it from reporting the error at the
point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional
call levels.  Using this is not recommended because it is very
difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess
and a carp as a cluck across I<all> modules. In other words, force a
detailed stack trace to be given. This can be very helpful when trying
to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol
'verbose'. You would typically enable it by saying

perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT
environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true.
See the C<GLOBAL VARIABLES> section below.
Stack Trace formatting

At each stack level, the subroutine's name is displayed along with its parameters. For simple scalars, this is sufficient. For complex data types, such as objects and other references, this can simply display C<HASH(0x1ab36d8)>.

Carp gives two ways to control this.

1. For objects, a method, C<CARP_TRACE>, will be called, if it exists. If this method doesn't exist, or it recurses into C<Carp>, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used. It is recommended that the object's type is part of the string to make debugging easier.

2. For any type of reference, C<$Carp::RefArgFormatter> is checked (see below). This variable is expected to be a code reference, and the current parameter is passed in. If this function doesn't exist (the variable is undef), or it recurses into C<Carp>, or it otherwise throws an exception, this is skipped, and Carp moves on to the next option, otherwise checking stops and the string returned is used.

3. Otherwise, if neither C<CARP_TRACE> nor C<$Carp::RefArgFormatter> is available, stringify the value ignoring any overloading.

GLOBAL VARIABLES

$Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C<0> to show all text. Defaults to C<0>.

$Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of C<0> to show the full length of the
argument.

Defaults to C<64>.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a false value to show all arguments to a function call. To suppress all arguments, use C<-1> or C<'0 but true'>.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces just like C<cluck()> and C<confess()>.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references.

Plain scalars and objects that implement C<CARP_TRACE> will not go through this formatter. Calling C<Carp> from within this function is not supported.

local $Carp::RefArgFormatter = sub {
  require Data::Dumper;
  Data::Dumper::Dump($_[0]); # not necessarily safe
};

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

  # These work
  our @CARP_NOT; # file scope
  use vars qw(@CARP_NOT); # package scope
  @My::Package::CARP_NOT = ... ; # explicit package variable

  # These don't work
  sub xyz { ... @CARP_NOT = ... } # w/o declarations above
  my @CARP_NOT; # even at top-level
Example of use:

    package My::Carping::Package;
    use Carp;
    our @CARP_NOT;
    sub bar { .... or _error('Wrong input') }
    sub _error {
        # temporary control of where'ness, __PACKAGE__ is implicit
        local @CARP_NOT = qw(My::Friendly::Caller);
        carp(@_)
    }

This would make C<Carp> report the error as coming from a caller not
in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides
where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never
report an error as being from a line in a package that is internal to
Perl. For example:

    $Carp::Internal{ (__PACKAGE__) }++;
    # time passes...
    sub foo { ... or confess("whatever") }

would give a full stack backtrace starting from the first caller
outside of __PACKAGE__. (Unless that package was also internal to
Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For
generating a full stack backtrace this is the same as being internal
to Perl, the stack backtrace will not start inside packages that are
listed in C<%Carp::CarpInternal>. But it is slightly different for
the summary message generated by C<confess> or C<croak>. There errors
will not be reported on any lines that are calling packages in
C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start
inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of C<Carp>'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that C<Carp> goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use C<@CARP_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>. Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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Carp - alternative warn and die for modules

DESCRIPTION
The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR
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1.733 libcurl 7.61.1-12.el8

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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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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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## NSS

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## axTLS
## mbedTLS

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

## BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(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.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

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## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.734 jruby 9.2.20.1
1.734.1 Available under license:
   GPL-2.0 OR (LGPL-2.1 OR EPL-2.0)

1.735 prometheus-exporter-toolkit 0.7.0
1.735.1 Available under license:
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1.736 logstash-output-email 4.1.1

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The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:
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* Colin Surprenant (colinsurprenant)
* Greg Mefford (GregMefford)
* James Turnbull (jamtur01)
* John E. Vincent (lusis)
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1.737 log4j-rolling-appender 20131024-2017

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1.738 urllib3 1.22

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  * Creation of ```HTTPConnectionPool.ResponseCls```.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.
* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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1.739 gnutls 3.6.14 7.el8_3

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tomb - support for clean goroutine termination in Go.

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Gocheck - A rich testing framework for Go

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Version: 0.10.6
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1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

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

```
tar xzvf netifaces-0.10.6.tar.gz
cd netifaces-0.10.6
python setup.py install
```

**Note that you will need the relevant developer tools for your platform**, as netifaces is written in C and installing this way will compile the extension.

Once that's done, you'll need to start Python and do something like the following:

```
>>> import netifaces
```
Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
```

```python
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*
Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a']]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `"SIOCGIFHWADDR"`. Note also that you just get the address; it's unlikely that you'll see anything else with an `"AF_LINK"` address.

Oh, and don't assume that all `"AF_LINK"` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
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```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, `"AF_INET"`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`"AF_INET"`); some
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based on their source, or based on administratively configured routing tables.

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value "default", which returns a dictionary mapping address families to the
default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family:
this is currently very common for IPv6 and much less common for IPv4 but it
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netifaces 0.10.6
================

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

1. What is this?
--------------
It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?
-------------------

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

tar xzvf netifaces-0.10.6.tar.gz

```
cd netifaces-0.10.6
python setup.py install
```

**Note that you will need the relevant developer tools for your platform**, as netifaces is written in C and installing this way will compile the extension.

Once that's done, you'll need to start Python and do something like the following::

```python
>>> import netifaces
Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```
you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```python
{ 18: [...] 2: [...] 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we
have three address families listed; on my system, 18 is `AF_LINK` (which means the link layer interface, e.g. Ethernet), 2 is `AF_INET` (normal Internet addresses), and 30 is `AF_INET6` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.255.240.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We
can do

```python
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[{'addr': '00:12:34:56:78:9a'}]
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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS
func Negotiate(header string, alternatives []string) (content_type string)  
Negotiate the most appropriate content_type given the accept header  
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)  
Parse an Accept Header string returning a sorted list  
of clauses

TYPES

type Accept struct {  
    Type, SubType string  
    Q float32  
    Params map[string]string  
}  
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

.hg

= vendor/bitbucket.org/ww/goautoneg/README.txt a33eda65f1bce658f358e1d690c6a93d4

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requirement: !ruby/object:Gem::Requirement
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      - !ruby/object:Gem::Version
        version: '0'
description: This gem add a few rake tasks to create a uber gems that will be shipped as a zip
email:
  - info@elastic.co
executables: []
extensions: []
extra_rdoc_files: []
files:
  - "/lib/paquet.rb"
  - "/lib/paquet/dependency.rb"
  - "/lib/paquet/gem.rb"
  - "/lib/paquet/rspec/tasks.rb"
  - "/lib/paquet/shell_ui.rb"
  - "/lib/paquet/utils.rb"
  - "/lib/paquet/version.rb"
hompage: https://github.com/elastic/logstash
licenses:
  - Apache License (2.0)
metadata: {}
1.765 logstash-filter-throttle 4.0.4

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1.766 logstash-output-tcp 6.0.0

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1.767 system-collections-specialized 5.0.0.0

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Additional -

---------------------------------------------
File: PSReadLine
---------------------------------------------

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-

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collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

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due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
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Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
The header `<boost/mp11 mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

--- end ---

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[mpl]

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:toc:
:toc-title:
:idprefix:

1.769 sg3-utils-libs 1.44-5.el8
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Source Files
------------

. The file `src/libs/snprintf/snprintf.c`, written by Mark Martinec
   <mark.martinec@ijs.si>.
   
   Please look into snprintf.c for the copyright message.

   The complete snprintf package together with documentation is available from

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

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

   The original package can be found at

   src/preproc/grn/gprint.h
   src/preproc/grn/hdb.cpp
   src/preproc/grn/hgraph.cpp
   src/preproc/grn/hpoint.cpp
   src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11’s `xditview' program
and thus has the X license.

```plaintext
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c
```

Macro Packages
--------------

- The -mdoc macro set, using the BSD license.

```plaintext
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
```
. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
    http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex
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- The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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- The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

  http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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Found in path(s):
* /bin/grep

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTEq.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/MethodAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ClassResolver.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTIn.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/Node.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTXor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTSequence.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ObjectArrayPool.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTLessEq.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTBitOr.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTKeyOr.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/MethodFailedException.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/IntHashMap.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ObjectNullHandler.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/EvaluationPool.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/DefaultNullHandler.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/DefaultClassResolver.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ExpressionSyntaxException.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ElementsAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTSubtract.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/CollectionElementsAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTTest.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ExpressionNode.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/DynamicSubscript.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ExpressionSyntaxException.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/IteratorPropertyAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/SetPropertyAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/EnumerationElementsAccessor.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTGreaterEq.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/ASTShiftLeft.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/TypeConverter.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1.jar/ognl/OgnlException.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/Evaluation.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTNotIn.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/InappropriateExpressionException.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/MemberAccess.java
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ObjectIndexedPropertyDescriptor.java

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* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlInvokePermission.java
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  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTRootVarRef.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTEval.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTThisVarRef.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ArrayPropertyAccessor.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTProject.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlContext.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/MapPropertyAccessor.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ListPropertyAccessor.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlRuntime.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/Ognl.java
  * /opt/ cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlOps.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlContext.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTConst.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTStaticMethod.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTList.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ObjectPropertyAccessor.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTVarRef.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/Ognl.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ASTCtor.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlOps.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/Ognl.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/OgnlOps.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/SimpleNode.java
  * /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ObjectMethodAccessor.java
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/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen//*--------------------------------------------------------------------------
//
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// DAMAGE.
//--------------------------------------------------------------------------
/
*
* This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
* language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
* Blanshard then made up the new name and reimplemented it using ANTLR, refining and
* polishing the language a bit on the way. Drew maintained the system for a couple of
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
* dependency on ANTLR.
*
* See package.html for a description of the language.
*/

options {
    // Parser options
    LOOKAHEAD = 1;
}
STATIC = false;
JAVA_UNICODE_ESCAPE = true;
UNICODE_INPUT = true;

}

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;

/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
 * syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser/*@bgen(jjtree)*/implements OgnlParserTreeConstants/*@egen*/{
/*@bgen(jjtree)*/
protected JJTOgnlParserState jjtree = new JJTOgnlParserState();

/*@egen*/
}

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */
/**
 Node topLevelExpression() : []
 {
  expression() <EOF> { return jjtree.rootNode(); } 
 }

// sequence (level 14)
void expression() : []
{
  assignmentExpression() ( ","/*@bgen(jjtree) #Sequence( 2) */)
  
  {
   ASTSequence jjtn001 = new ASTSequence(JTSEQUENCE);
   boolean jjtc001 = true;
   jjtree.openNodeScope(jjtn001);
  }
try {
    catch (Throwable jjte001) {
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
    }
    finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }
}

// assignment expression (level 13)
void assignmentExpression() : {} {
    conditionalTestExpression() [ "="/bgen(jjtree) #Assign( 2 ) */
    [ /*@egen*/
    ASTAssign jjtn001 = new ASTAssign(JTASSIGN);
        boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        catch (Throwable jjte001) {
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
        }
    }
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/

// conditional test (level 12)
void conditionalTestExpression() : {}
{
    logicalOrExpression()
        [ "?" conditionalTestExpression() ":" /*@bgen(jjtree) #Test(3) */
            {
                ASTTest jjtn001 = new ASTTest(JJTTEST);
                boolean jjtc001 = true;
                jjtree.openNodeScope(jjtn001);
            }
        try {
            /*@egen*/ conditionalTestExpression()/*@bgen(jjtree)*/
            [ ] catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
                if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                }
                if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                }
                throw (Error)jjte001;
            }
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 3);
            }
        }
    /*@egen*/
}

// logical or (||)  (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() ("||" | "or")/*@bgen(jjtree) #Or(2)*/
        {n}
ASTOr jjtn001 = new ASTOr(JJTOR);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ logicalAndExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
if (jjtc001) {
  jjtree.clearNodeScope(jjtn001);
  jjtc001 = false;
} else {
  jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
  throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
  throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
  jjtree.closeNodeScope(jjtn001, 2);
}
}

/*@egen*/

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
  inclusiveOrExpression() ("&&" | "and")/*@bgen(jjtree) #And( 2) */
  {
    ASTAnd jjtn001 = new ASTAnd(JJTAND);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }
  try {
   /*@egen*/ inclusiveOrExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte001) {
  if (jjtc001) {
    jjtree.clearNodeScope(jjtn001);
    jjtc001 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte001 instanceof RuntimeException) {
throw (RuntimeException)jjte001;
} if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/         )*

// bitwise or non-short-circuiting or () (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() ("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
    {
        ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        exclusiveOrExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        }
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
/*@egen*/       )*
// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
    {
        ASTXor jjtn001 = new ASTXor(JJTXOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        andExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjte001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) { throw (RuntimeException)jjte001; } else if (jjte001 instanceof ParseException) { throw (ParseException)jjte001; } throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }
/*@egen*/  
}

// bitwise or non-short-circuiting and (&)  (level 7)
void andExpression() : {}
{
equalityExpression() ("&" | "band")/*@bgen(jjtree) #BitAnd( 2) */
    {
        ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        equalityExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.pushNodeScope(jjtn001,  2);
        }
    }
/*@egen*/  
}"
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/                    
*/@egen*/

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    ("==" | "eq"/*.bgen(jjtree)#Eq(2)/) /*
    {
        ASTEq jjtn001 = new ASTEq(JJTEQ);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ relationalExpression()/*.bgen(jjtree)/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    }
}
/*@egen*/
| ("!=" | "neq")/*@bgen(jjtree) #NotEq( 2) */
{  
    ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);  
    boolean jjtc002 = true;  
    jjtree.openNodeScope(jjtn002);  
    }
try {  
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {  
 if (jjtc002) {  
    jjtree.clearNodeScope(jjtn002);  
    jjtc002 = false;  
  } else {  
    jjtree.popNode();  
  }
if (jjte002 instanceof RuntimeException) {  
    throw (RuntimeException)jjte002;  
  }
if (jjte002 instanceof ParseException) {  
    throw (ParseException)jjte002;  
  }
throw (Error)jjte002;  
} finally {  
 if (jjtc002) {  
     jjtree.closeNodeScope(jjtn002,  2);  
  }  
}

/*@egen*/
)

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
    shiftExpression()
    (  
        "<" | "lt")/*@bgen(jjtree) #Less( 2) */
    {
        ASTLess jjtn001 = new ASTLess(JTLESS);  
        boolean jjtc001 = true;  
    }
jjtree.openNodeScope(jjtn001);
}
try {
  /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
  if (jjtc001) {
    jjtree.clearNodeScope(jjtn001);
    jjtc001 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
  }
  if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
  }
  throw (Error)jjte001;
} finally {
  if (jjtc001) {
    jjtree.closeNodeScope(jjtn001, 2);
  }
}
/*@egen*/
|
  (">" | "gt")/*@bgen(jjtree) #Greater(2) */
  {
    ASTGreater jjtn002 = new ASTGreater(JJTGREATER);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
  }
try {
  /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
  if (jjtc002) {
    jjtree.clearNodeScope(jjtn002);
    jjtc002 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
  }
  if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
  }
  throw (Error)jjte002;
} finally {
if (jjtc002) {
    jjtree.closeNodeScope(jjtn002, 2);
}

/*@egen*/
| ("<=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
{| ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
    try {
       /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 2);
        }
    }

/*@egen*/
| (">=" | "gte")/*@bgen(jjtree) #GreaterEq( 2) */
{| ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
    try {
       /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte004) {
        if (jjtc004) {
            jjtree.clearNodeScope(jjtn004);
            jjtc004 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte004 instanceof RuntimeException) {
            throw (RuntimeException)jjte004;
        }
        if (jjte004 instanceof ParseException) {
            throw (ParseException)jjte004;
        }
        throw (Error)jjte004;
    }
jjtree.popNode();
}
if (jjte004 instanceof RuntimeException) {
    throw (RuntimeException)jjte004;
}
if (jjte004 instanceof ParseException) {
    throw (ParseException)jjte004;
} 
throw (Error)jjte004;
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 2);
    }
}

/*@egen*/
| "in"/*@bgen(jjtree) #In( 2) */
{
    ASTIn jjtn005 = new ASTIn(JJTIN);
    boolean jjtc005 = true;
    jjtree.openNodeScope(jjtn005);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte005) {
    if (jjtc005) {
        jjtree.clearNodeScope(jjtn005);
        jjtc005 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte005 instanceof RuntimeException) {
        throw (RuntimeException)jjte005;
    }
    if (jjte005 instanceof ParseException) {
        throw (ParseException)jjte005;
    }
    throw (Error)jjte005;
} finally {
    if (jjtc005) {
        jjtree.closeNodeScope(jjtn005, 2);
    }
}

/*@egen*/
| "not" "in"/*@bgen(jjtree) #NotIn( 2) */
{
    ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
boolean jjtc006 = true;
jtree.openNodeScope(jjtn006);
}
try {
    /*@egen*/ shiftExpression()/*@bgen(jjtree)*/
        catch (Throwable jjte006) {
            if (jjtc006) {
                jjtree.clearNodeScope(jjtn006);
                jjtc006 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte006 instanceof RuntimeException) {
                throw (RuntimeException)jjte006;
            }
            if (jjte006 instanceof ParseException) {
                throw (ParseException)jjte006;
            }
            throw (Error)jjte006;
        } finally {
            if (jjtc006) {
                jjtree.closeNodeScope(jjtn006, 2);
            }
        }
    /*@egen*/
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
    additiveExpression()
    {
        ("<<" | "shl")/*@bgen(jjtree) #ShiftLeft( 2) */
        {
            ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSHIFTLEFT);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
    try {
        /*@egen*/ additiveExpression()/*@bgen(jjtree)*/ catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        }
    }
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} else {
    throw (Error)jjte001;
}
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }

/*@egen*/
| (">>>" | "shr")/*@bgen(jjtree) #ShiftRight(2) */
{
    ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
    try {
        /*@egen*/ additiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }

/*@egen*/
| (">>>" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight(2) */
{
    ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
    boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}

//@egen*

//@egen*/

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    ("+"//@bgen(jjtree) #Add( 2) */
    [ASTAdd jjtn001 = new ASTAdd(JJTADD);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    ]
    try {
        //@egen*/ multiplicativeExpression()//@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
    }
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
} throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/
 |
":-/*@bgen(jjtree) #Subtract( 2 ) */
|
ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
} try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
)
*

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
unaryExpression()
(
"*/@bgen(jjtree)#Multiply(2)*/
{
ASTMultiply jjtn001 = new ASTMultiply(JJTMULTIPLY);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

"*/@e@bgen(jjtree)#Divide(2)*/
{
ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
throw (RuntimeException)jjte002;
}
if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
}
throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/

"\%"/*@bgen(jjtree) #Remainder( 2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/

)*
}

// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
ASTInstanceof ionode;

(  
"-"/*@bgen(jjtree) #Negate( 1) */
{
ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
if (jjtc001) {
    jitree.clearNodeScope(jjtn001);
    jjtc001 = false;
} else {
    jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
    jjtree.closeNodeScope(jjtn001,  1);
}
}

/*@egen*/

| "+" unaryExpression() // Just leave it there |
| "~"/*@bgen(jjtree) #BitNegate( 1) */
{
ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
if (jjtc002) {
    jitree.clearNodeScope(jjtn002);
    jjtc002 = false;
} else {

jjtree.popNode();
}
if (jtte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
}
if (jtte002 instanceof ParseException) {
    throw (ParseException)jjte002;
}
throw (Error)jjte002;
} finally {
    if (jtte002) {
jjtree.closeNodeScope(jjtn002, 1);
    }
/*@egen*/

| ("!" | "not")/*@bgen(jjtree) #Not( 1) */
{|
    ASTNot jjtn003 = new ASTNot(JJTNOT);
    boolean jtc003 = true;
    jjtree.openNodeScope(jjtn003);
    try |
    unaryExpression()/*@bgen(jjtree)*|
    catch (Throwable jjte003) {
        if (jtc003) {
            jjtree.clearNodeScope(jjtn003);
            jtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jtte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jtte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jtc003) {
            jjtree.closeNodeScope(jjtn003, 1);
        }
    }
/*@egen*/

| navigationChain()
|
"instanceof"
```java
// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
    ( "." /*@bgen(jjtree) #Chain( 2 ) */
    {
        ASTChain jjtn001 = new ASTChain(JJTCHAIN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
        ( LOOKAHEAD(2) methodCall() | propertyName() )
        // Also handle "\{", which requires a lookahead of 2.
        | ( LOOKAHEAD(2) projection() | selection() )
        | "(" expression( ) ")"
    } /*@bgen(jjtree)*/
    catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        }
    }
}
```
} else {
    jjtree.popNode();
}

if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
}

if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}

throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/

/*@bgen(jjtree) #Chain(2) */
{
    ASTChain jjtn002 = new ASTChain(JJTCHAIN);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
} try {
    /*@egen*/ @bgen(jjtree) index()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }

        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }

        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }

        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
} /*@egen*/

"(" expression()/*@bgen(jjtree) #Eval(2) */
{
ASTEval jjtn003 = new ASTEval(JJTEVAL);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ "*/"/*@bgen(jjtree)*/
} finally {
if (jjtc003) {
jjtree.closeNodeScope(jjtn003, 2);
}
}

/*@egen*/

/* Using parentheses to indicate evaluation of the current
object makes this language ambiguous, because the
expression "ident(args)" could be seen as a single
method call or as a property name followed by an
evaluation. We always put the method call first and
turn off the ambiguity warning; we always want to
interpret this as a method call. */

void primaryExpression() {
    Token t;
    String className = null;
}
{
    (*@bgen(jjtree) #Const( 0) */
    ASTConst jjtn001 = new ASTConst(JJTCNST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    }
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn001, 0);
jjtc001 = false;
}
/*@egen*/
{
jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
} finally {
if (jjtc001) {

}
jjtree.closeNodeScope(jjtn001, 0);
}
}

/*@egen*/
|
"true"/*@bgen(jjtree) #Const( 0) */
{
ASTConst jjtn002 = new ASTConst(JJTCNST);
boolean jjtc002 = true;
jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn002, 0);
jjtc002 = false;
}
/*@egen*/
{ jjtn002.setValue( Boolean.TRUE ); }/*@bgen(jjtree)*/
} finally {
if (jjtc002) {
jjtree.closeNodeScope(jjtn002, 0);
}
}

/*@egen*/
|
"false"/*@bgen(jjtree) #Const( 0) */
{
ASTConst jjtn003 = new ASTConst(JJTCNST);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*//*@bgen(jjtree)*/ 
{
jjtree.closeNodeScope(jjtn003, 0);
jjtc003 = false;
}
/*@egen*/
{ jjtn003.setValue( Boolean.FALSE ); }/*@bgen(jjtree)*/ 
} finally {
if (jjtc003) {
jjtree.closeNodeScope(jjtn003, 0);
}
}

/*@egen*/
]/*@bgen(jjtree) #Const( 0) */
{
ASTConst jjtn004 = new ASTConst(JJTCNST);
boolean jjtc004 = true;
jtree.openNodeScope(jjtn004);
}
try {
/*@egen*/
"null"/*@bgen(jjtree)*/
} finally {
if (jjtc004) {
    jtree.closeNodeScope(jjtn004, 0);
}
}
/*@egen*/         // Null is the default value in an ASTConst
|
LOOKAHEAD(2) "this"/*@bgen(jjtree) #ThisVarRef(0) */
{
    ASTThisVarRef jjtn005 = new ASTThisVarRef(JJTTHISVARREF);
    boolean jjtc005 = true;
    jtree.openNodeScope(jjtn005);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
    jtree.closeNodeScope(jjtn005, 0);
    jjtc005 = false;
}
/*@egen*/
{ jjtn005.setName("this"); }/*@bgen(jjtree)*/
} finally {
if (jjtc005) {
    jtree.closeNodeScope(jjtn005, 0);
}
}
/*@egen*/
|
LOOKAHEAD(2) "root"/*@bgen(jjtree) #RootVarRef(0) */
{
    ASTRootVarRef jjtn006 = new ASTRootVarRef(JJROOTVARREF);
    boolean jjtc006 = true;
    jtree.openNodeScope(jjtn006);
}
try {
/*@egen*//*@bgen(jjtree)*/
{
    jtree.closeNodeScope(jjtn006, 0);
    jjtc006 = false;
}
/*@egen*/
{ jjtn006.setName("root"); }/*@bgen(jjtree)*/
} finally {
if (jjtc006) {
    jtree.closeNodeScope(jjtn006, 0);
}
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```java
*/@egen*/

LOOKAHEAD(2) "#" t=<IDENT>/*@@bgen(jjtree) #VarRef(0) */
{
    ASTVarRef jjtn007 = new ASTVarRef(JJTVARREF);
    boolean jjtc007 = true;
    jjtree.openNodeScope(jjtn007);
    try {
*/@egen*//*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn007, 0);
    jjtc007 = false;
*/@egen*/
} finally {
    if (jjtc007) {
        jjtree.closeNodeScope(jjtn007, 0);
    }
*/@egen*/
}

*/@egen*/

LOOKAHEAD(2) ":" [" expression() "]/*@@bgen(jjtree) #Const(1) */
{
    ASTConst jjtn008 = new ASTConst(JJTCNST);
    boolean jjtc008 = true;
    jjtree.openNodeScope(jjtn008);
    try {
*/@egen*//*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn008, 1);
    jjtc008 = false;
*/@egen*/
} finally {
    if (jjtc008) {
        jjtree.closeNodeScope(jjtn008, 1);
    }
*/@egen*/
*/@egen*/

staticReference()

LOOKAHEAD(2) constructorCall()
```
Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.

( LOOKAHEAD(2) methodCall() | propertyName() )

| index()
| "(" expression( ")")"

"[/*@bgen(jjtree) List */
 | {
 | ASTList jtn009 = new ASTList(JJTLIST);
 | boolean jjtc009 = true;
 | jjtree.openNodeScope(jtn009);
 | }
 | try {
 | @egen*/ [assignmentExpression() ("," assignmentExpression())]*]/*@bgen(jjtree)*/
 | } catch (Throwable jjte009) {  
 | if (jjtc009) {  
 | jtree.clearNodeScope(jtn009);  
 | jjtc009 = false;  
 | } else {  
 | jtree.popNode();  
 | }
 | if (jjte009 instanceof RuntimeException) {  
 | throw (RuntimeException)jjte009;  
 | }
 | if (jjte009 instanceof ParseException) {  
 | throw (ParseException)jjte009;  
 | }
 | throw (Error)jjte009;
 | } finally {  
 | if (jjtc009) {  
 | jtree.closeNodeScope(jtn009, true);  
 | }
 | }

} /*@bgen*/ "}"

LOOKAHEAD(2)/@bgen(jjtree) Map */
{
 | ASTMap jtn010 = new ASTMap(JJTMAP);
 | boolean jjtc010 = true;
 | jjtree.openNodeScope(jtn010);
 | }
 | try {
 | /*@bgen*/ ("#" (className=classReference())? "[" [keyValueExpression() ("," keyValueExpression())]*] {  
 | jtn010.setClassName(className); } "]")/*@bgen(jjtree)*/
 | } catch (Throwable jjte010) {  
 | if (jjtc010) {  
 | jtree.clearNodeScope(jtn010);  
 | }
jjtc010 = false;
} else {
    jjtree.popNode();
}
if (jjte010 instanceof RuntimeException) {
    throw (RuntimeException)jjte010;
}
if (jjte010 instanceof ParseException) {
    throw (ParseException)jjte010;
}
throw (Error)jjte010;
} finally {
    if (jjte010) {
        jjtree.closeNodeScope(jjtn010, true);
    }
}

/*@egen*/
)
}

void keyValueExpression() : {}

/*@bgen(jjtree) KeyValue */
{
    ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        /*@egen*/
        ( assignmentExpression() (":" assignmentExpression())? )/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
}
void staticReference() : {
    String className = "java.lang.Math";
    Token t;
}

    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    LOOKAHEAD(2)
    staticMethodCall( className )
    |
    t=<IDENT>/*@bgen(jjtree) #StaticField( 0) */
    |
    ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        @/*@egen*/@/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn001, 0);
            jjtc001 = false;
        }
        @/*@egen*/{ jjtn001.init( className, t.image ); }@/*@bgen(jjtree)*/
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 0);
        }
    }
}

String classReference(): {
    String      result = "java.lang.Math";
}

    { "@" ( result=className() )? "@" { return result; } }

String className(): {
    Token t;
    StringBuffer result;
}

t=<IDENT>               { result = new StringBuffer(t.image); }
("." t=<IDENT>         { result.append('.').append(t.image); }
)*                      { return new String(result); }
}

void constructorCall()       : {/*@bgen(jjtree) Ctor */
  ASTCtor jjtn000 = new ASTCtor(JJTCTOR);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  /*@egen*/
  String className;
  Token t;
  StringBuffer sb;
}/*@bgen(jjtree) Ctor */
  try {
    /*@egen*/
    "new" className=className() 
      ( LOOKAHEAD(2) ( "(" [assignmentExpression()] ( ";" assignmentExpression() )* )")"/*@bgen(jjtree)*/
        {
          jjtree.closeNodeScope(jjtn000, true);
          jjtc000 = false;
        }
    )/*@egen*/
    {
      jjtn000.setClassName(className);
    }
  )
  }
  LOOKAHEAD(2) ( 
    "[" "]" "("/*@bgen(jjtree) List */
      {
        ASTList jjtn001 = new ASTList(JJTLIST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
      }
  ) try {
    /*@egen*/ [assignmentExpression()] ( ";" assignmentExpression() )"/*@bgen(jjtree)*/
      } catch (Throwable jite001) {
        if (jjtc001) {
          jjtree.clearNodeScope(jjtn001);
          jjtc001 = false;
        } else {
          jjtree.popNode();
        }
        if (jjtc001 instanceof RuntimeException) {

throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}
/*@egen*/
"}/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setClassName(className);
    jjtn000.setArray(true);
}
)
|
LOOKAHEAD(2) ( |
"[" assignmentExpression() "]"/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setClassName(className);
    jjtn000.setArray(true);
}
)
/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
void propertyName()        : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    Token t;
}/*@bgen(jjtree) Property */
try {
    /*@egen*/
    t=<IDENT>/*@bgen(jjtree) Const */
    {
        ASTConst jjtn001 = new ASTConst(JJTCONST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    /*@egen*/ try {
        jjtree.closeNodeScope(jjtn001, true);
        jjtc001 = false;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
    /*@egen*/ /*@bgen(jjtree)*/
    }
    /*@egen*/ /*@bgen(jjtree)/
    try {
        jjtree.closeNodeScope(jjtn001, true);
        jjtc001 = false;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
    /*@egen*/ /*@bgen(jjtree)*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
} /*@egen*/
void staticMethodCall( String className )     : /*@bgen(jjtree) StaticMethod */
ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
Token t;
/*@bgen(jjtree) StaticMethod */
try {
/*@egen*/
t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{ jjtn000.init(className, t.image); }/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void methodCall() : {/*@bgen(jjtree) Method */
ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
Token t;
/*@bgen(jjtree) Method */
try {
/*@egen*/
t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/@bgen(jjtree)*/
    
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@eend*/

/*@eend*/

    jjtn000.setMethodName( t.image ); }/*@bgen(jjtree)*/

} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@eend*/

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection()  : /*@bgen(jjtree) Project */
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@eend*/
}/*@bgen(jjtree) Project */
    try {
    /*@eend*/
    "{" expression() "}"/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
} throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*/eigen*/

void selection() : {}
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() : {/*@bgen(jjtree) Select */
ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
}
{
    try {
        /*@bgen(jjtree) Select */
        "( '?' expression() ' ')/@bgen(jjtree)*@
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
void selectFirst() : {@gen(jjtree) SelectFirst *}/
   ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
   boolean jjtc000 = true;
   jjtree.openNodeScope(jjtn000);
   try {
      #{@gen(jjtree)*}/
      catch (Throwable jjte000) {
         if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
         } else {
            jjtree.popNode();
         }
      if (jjte000 instanceof RuntimeException) {
         throw (RuntimeException)jjte000;
      }
      if (jjte000 instanceof ParseException) {
         throw (ParseException)jjte000;
      }
      throw (Error)jjte000;
   } finally {
      if (jjtc000) {
         jjtree.closeNodeScope(jjtn000, true);
      }
   }
}
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/

void selectLast() : {/*@bgen(jjtree) SelectLast */
    ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}/*@bgen(jjtree) SelectLast */
    try {
        /*@egen*/
        "[" "$" expression() "]"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    /*@egen*/
}

void index() : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}/*@bgen(jjtree) Property */
    try {
        /*@egen*/
        "[" expression() "]"/*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn000, true);
            jjtc000 = false;
        }
    /*@egen*/
    } jjtn000.setIndexedAccess(true); }
<DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
{
    ASTConst jjtn001 = new ASTConst(JJTCONST);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
//@egen//@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn001, true);
    jjtc001 = false;
}
//@egen*/ { jjtn001.setValue( token_source.literalValue ); }//@bgen(jjtree)*/
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}
//@egen*/ /*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
//@egen*/
{
    jjtn000.setIndexedAccess(true);
}//@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}//@egen*/
// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()
    {
        int ofs = image.length() - 1;
        switch ( image.charAt(ofs) )
        {
            case 'n':  return '\n';
            case 'r':  return '\r';
            case 't':  return '\t';
            case 'b':  return '\b';
            case 'f':  return '\f';
            case '\': return '\';
            case '"':  return '"';
            case '\": return '"';
        }

        // Otherwise, it's an octal number. Find the backslash and convert.
        while ( image.charAt(--ofs) != '\' )
        {
            int value = 0;
            while ( ++ofs < image.length() )
                value = (value << 3) | (image.charAt(ofs) - '0');
            return (char) value;
        }

        // Otherwise, it's an octal number. Find the backslash and convert.
        while ( (image.charAt(--ofs) != '\') )
        {
            int value = 0;
            while ( ++ofs < image.length() )
                value = (value << 3) | (image.charAt(ofs) - '0');
            return (char) value;
        }

    private Object makeInt()
    {
        Object  result;
        String  s = image.toString();
        int     base = 10;

        if ( s.charAt(0) == '0' )
        {
            base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
        }

    if ( base == 16 )
    {
s = s.substring(2); // Trim the 0x off the front
switch (s.charAt(s.length()-1)) {
    case 't': case 'T':
        result = Long.valueOf(s.substring(0,s.length()-1), base);
        break;

    case 'l': case 'L':
        result = Long.valueOf(s.substring(0,s.length()-1), base);
        break;

    case 'h': case 'H':
        result = new BigInteger(s.substring(0,s.length()-1), base);
        break;

    default:
        result = Integer.valueOf(s, base);
        break;
}
return result;

private Object makeFloat() {
    String s = image.toString();
    switch (s.charAt(s.length()-1)) {
        case 'f': case 'F':
            return Float.valueOf(s);
        case 'b': case 'B':
            return new BigDecimal(s.substring(0,s.length()-1));

        case 'd': case 'D':
        default:
            return Double.valueOf(s);
    }
}

// Whitespace -- ignored
SKIP:
{ " " | \t | \f | \r | \n }

// An identifier.
TOKEN:
{ < IDENT: <LETTER> (<LETTER>|<DIGIT>)* > |
   < #LETTER: [ "$", "$A"-"$Z", "$_", "$a"-"$z", }
TOKEN:
{
  switch (image.charAt(1)) {
    case '^': literalValue = DynamicSubscript.first; break;
    case '|': literalValue = DynamicSubscript.mid;   break;
    case '$': literalValue = DynamicSubscript.last;  break;
    case '*': literalValue = DynamicSubscript.all;   break;
  }
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [], $[, and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */

/DIGIT:
[
  "0"-"9",
  "u0660"-"u0669",
  "u066f"-"u0679",
  "u06f6"-"u06f9",
  "u0966"-"u096f",
  "u09e6"-"u09ef",
  "u0a66"-"u0a6f",
  "u0ae6"-"u0aef",
  "u0b66"-"u0b6f",
  "u0be7"-"u0bef",
  "u0c66"-"u0c6f",
  "u0ce6"-"u0cef",
  "u0d66"-"u0d6f",
  "u0e50"-"u0e59",
  "u0ed0"-"u0ed9",
  "u1040"-"u1049"
] >

*/
/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */

MORE:
{
  "\"" : WithinBackCharLiteral
 |
  "\"" { stringBuffer = new StringBuffer(); } : WithinCharLiteral
 |
  "\\" { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: \" ( ["n","r","t","b","f","\"","\","\",","\",","\"] 
           | (\[0..3\])? \[0..7\] \[0..7\]
     )
    >
    { charValue = escapeChar(); stringBuffer.append(charValue); }
 |
  < (~["\","\"]>)
    { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: ""/>
    {
      if (stringBuffer.length() == 1) {
        literalValue = new Character( charValue );
      } else {
        literalValue = new String( stringBuffer );
      }
    }
    : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
  < BACK_CHAR_ESC: <ESC> >
    { charValue = escapeChar(); }
 |
  < (~["","\"]>)
    { charValue = image.charAt( image.length()-1 ); }
}
Integer or real Numeric literal, whose object value is stored in the token manager's
"literalValue" field.
*/

TOKEN:
{
  < INT_LITERAL:
    ( "0" (["0"-"7"])? ["1"-"9"] (["0"-"9"])? | "0" ["x","X"] (["0"-"9","a","f","A","F"])+ )
    (["l","L","h","H"])?
    )
    >
    { literalValue = makeInt(); }
  |
  < FLT_LITERAL:
    ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)? |
     <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? |
     <DEC_DIGITS> <FLT_SUFF>
    )
    >
    { literalValue = makeFloat(); }
  |
  < #DEC_FLT: (["0"-"9"])+ "." (["0"-"9"])? | "." (["0"-"9"])+ >
  |
  < #DEC_DIGITS: (["0"-"9"])+ >
  |
  < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
  |
  < #FLT_SUFF: ["d","D","f","F","b","B"] >
}
Found in path(s):
* /opt/cola/permits/1111463258_1606928228.32/0/ognl-3-1-17-sources-1-jar/ognl/ognl.jj
No license file was found, but licenses were detected in source scan.

(nullptr)

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// DAMAGE.
//------------------------------------------------------------------------------

/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and reimplemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */

options {
// Parser options
LOOKAHEAD = 1;
STATIC = false;
JAVA_UNICODE_ESCAPE = true;
UNICODE_INPUT = true;

// Tree options
MULTI = true;
NODE_DEFAULT_VOID = true;
}

PARSER_BEGIN(OgnlParser)
package ognl;
import java.math.*;

/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
 * syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser
{

PARSER_END(OgnlParser)

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
    assignmentExpression() ( "," assignmentExpression() #Sequence(2) )*
}

// assignment expression (level 13)
void assignmentExpression() : {}
{
    conditionalTestExpression() [ "=" assignmentExpression() #Assign(2) ]
// conditional test (level 12)
void conditionalTestExpression() : {}
{
    logicalOrExpression()
        [ "?" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]
}

// logical or (||) (level 11)
void logicalOrExpression() : {}
{
    logicalAndExpression() (("||" | "or") logicalAndExpression() #Or(2))
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression() (("&&" | "and") inclusiveOrExpression() #And(2))
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() (("|" | "bor") exclusiveOrExpression() #BitOr(2))
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() (("^" | "xor") andExpression() #Xor(2))
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() (("&" | "band") equalityExpression() #BitAnd(2))
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
(("==" | "eq") relationalExpression() #Eq(2) |
  ("!=" | "neq") relationalExpression() #NotEq(2))*)
}

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
  shiftExpression()
  {
    ("<" | "lt") shiftExpression() #Less(2) |
    (">" | "gt") shiftExpression() #Greater(2) |
    ("<=" | "lte") shiftExpression() #LessEq(2) |
    (">=" | "gte") shiftExpression() #GreaterEq(2) |
    "in" shiftExpression() #In(2) |
    "not" "in" shiftExpression() #NotIn(2) )*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
  additiveExpression()
  {
    ("<<" | "shl") additiveExpression() #ShiftLeft(2) |
    (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2) |
  }*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
  multiplicativeExpression()
  {
    "+" multiplicativeExpression() #Add(2)
// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
  unaryExpression()
  (  
    "*" unaryExpression() #Multiply(2)  
    |  
    "/" unaryExpression() #Divide(2)  
    |  
    "%" unaryExpression() #Remainder(2)  
  )*  
}

// unary (level 1)
void unaryExpression() : {  
  StringBuffer sb;  
  Token t;  
  ASTInstanceof ionode;  
}
{

  (  
    ":-" unaryExpression() #Negate(1)  
    |  
    "*" unaryExpression() // Just leave it there  
    |  
    "~~" unaryExpression() #BitNegate(1)  
    |  
    ("!" | "not") unaryExpression() #Not(1)  
  )
  navigationChain()
  [  
    "instanceof"  
    t = <IDENT> { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)  
    ( ":." t = <IDENT> { sb.append('.').append( t.image ); }  
      )*  
    { ionode.setTargetType( new String(sb) ); }  
  ]  
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : { }
void primaryExpression() {
    Token t;
    String className = null;
}

{ (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> | <FLT_LITERAL>)
    { jjtThis.setValue( token_source.literalValue ); } #Const(0)
    | "true" { jjtThis.setValue( Boolean.TRUE ); } #Const(0)
    | "false" { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
    | "null" #Const(0) // Null is the default value in an ASTConst
    | LOOKAHEAD(2) "#this" { jjtThis.setName( "this" ); } #ThisVarRef(0)
    | LOOKAHEAD(2) "#root" { jjtThis.setName( "root" ); } #RootVarRef(0)
    | LOOKAHEAD(2) "#" t=<IDENT> { jjtThis.setName( t.image ); } #VarRef(0)
    | /* Using parentheses to indicate evaluation of the current
       object makes this language ambiguous, because the
       expression "ident(args)" could be seen as a single
       method call or as a property name followed by an
       evaluation. We always put the method call first and
       turn off the ambiguity warning; we always want to
       interpret this as a method call. */
}
void keyValueExpression() : {}
{
    ( assignmentExpression() (":" assignmentExpression())? ) #KeyValue
}

void staticReference() : {
    String className = "java.lang.Math";
    Token t;
}
{
    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        LOOKAHEAD(2) staticMethodCall( className )
        |
        t=<IDENT>               { jjtThis.init( className, t.image ); } #StaticField(0)
    )
}

String classReference(): {
    String      result = "java.lang.Math";
}
{
    "@" ( result=className() )? "@" { return result; }
}

String className(): {
    Token t;
StringBuffer result;

{
    t=<IDENT>               { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>         { result.append('.').append( t.image ); })*
        { return new String(result); }
}

void constructorCall() #Ctor : {
    String className;
    Token t;
    StringBuffer sb;
}
{
    "new" className=className()
    {
        LOOKAHEAD(2) ( "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            {
                jjtThis.setClassName(className);
            }
        )
        |
        LOOKAHEAD(2) ( 
            
            "[" "]" "{" [assignmentExpression() ("," assignmentExpression())*] #List "}"
            {
                jjtThis.setClassName(className);
                jjtThis isArray(true);
            }
        )
        |
        LOOKAHEAD(2) ( 
            
            "[" assignmentExpression() "]"
            {
                jjtThis.setClassName(className);
                jjtThis isArray(true);
            }
        )
    }
}

void propertyName() #Property : {
    Token t;
}
{
    t=<IDENT> { jjtThis.setValue( t.image ); } #Const
void staticMethodCall( String className ) #StaticMethod : {
    Token t;
}

    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            { jjtThis.init( className, t.image ); } 

void methodCall() #Method : {
    Token t;
}

    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
            { jjtThis.setMethodName( t.image ); } 

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() #Project : {} 
    "{" expression() "}" 

void selection() : {} 
    { 
        LOOKAHEAD(2) selectAll()
        | 
        LOOKAHEAD(2) selectFirst()
        | 
        LOOKAHEAD(2) selectLast()
    } 

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() #Select : {} 
    "{ "?=" expression() "}" 

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() #SelectFirst : {}
{
"{" "^" expression() "}"
}
/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectLast() #SelectLast : {}
{
"{" "$" expression() "}"
}
void index() #Property : {}
{
"[" expression() "]" { jjtThis.setIndexedAccess(true); }
|
<DYNAMIC_SUBSCRIPT> { jjtThis.setValue( token_source.literalValue ); } #Const
{
jjtThis.setIndexedAccess(true);
}
}
// LEXER PRODUCTIONS
TOKEN_MGR_DECLS:
{
/** Holds the last value computed by a constant token. */
Object literalValue;
/** Holds the last character escaped or in a character literal. */
private char charValue;
/** Holds char literal start token. */
private char charLiteralStartQuote;
/** Holds the last string literal parsed. */
private StringBuffer stringBuffer;
/** Converts an escape sequence into a character value. */
private char escapeChar()
{
int ofs = image.length() - 1;
switch ( image.charAt(ofs) ) {
case 'n': return '\n';
case 'r': return '\r';
case 't': return '\t';
case 'b': return '\b';
case 'f': return '\f';
case '\\': return '\\';
case '\'': return '\'';

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case \\": return \\";
}

// Otherwise, it's an octal number. Find the backslash and convert.
while ( image.charAt(--ofs) != \\ )
{
    int value = 0;
    while ( ++ofs < image.length() )
        value = (value << 3) | (image.charAt(ofs) - '0');
    return (char) value;
}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;
        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;
        default:
            result = Integer.valueOf( s, base );
            break;
    }
    return result;
}

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );
        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );
        default:
            return new BigDecimal( s.substring(0,s.length()-1) );
    }
}
case 'd': case 'D':
    default:
        return Double.valueOf( s );
    }
}
}

// Whitespace -- ignored
SKIP:
{  " " | \t | \f | \r | \n  }

// An identifier.
TOKEN:
{
    < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
    |
    < #LETTER: ["u0024", "u0041"-"u005a", "u005f", "u0061"-"u007a", "u00c0"-"u00d6", "u00d8"-"u00f6", "u00f8"-"u00ff", "u0100"-"u1fff", "u3040"-"u318f", "u3300"-"u337f", "u3400"-"u3d2d", "u4e00"-"u9fff", "uf900"-"ufaff" ] >
    |
    < #DIGIT: ["u0030"-"u0039", "u0066"-"u0069", "u006f", "u0966"-"u096f", "u09f6"-"u09f7", "u0a66"-"u0a6f", "u0a9f", "u0b66"-"u0b6f", "u0be7"-"u0bef", "u0c66"-"u0c6f", "u0ce6"-"u0cefa", "u0d66"-"u0d6f", "u0e50"-"u0e59", "u0ed0"-"u0ed9",
*/
* Token for "dynamic subscripts", which are one of: [^], [[]], [$], and [*]. The
* appropriate constant from the DynamicSubscript class is stored in the token manager's
* "value" field.
*/

TOKEN:
{
<DYNAMIC_SUBSCRIPT: "[" ["^","\","$","*"] "]" >
{
switch (image.charAt(1)) {
    case '^': literalValue = DynamicSubscript.first; break;
    case '|': literalValue = DynamicSubscript.mid;   break;
    case '$': literalValue = DynamicSubscript.last;  break;
    case '*': literalValue = DynamicSubscript.all;   break;
}
}

/**
* Character and string literals, whose object value is stored in the token manager's
* "literalValue" field.
*/

MORE:
{
"\"": WithinBackCharLiteral
|
""": { stringBuffer = new StringBuffer(); }: WithinCharLiteral
|
"\"": { stringBuffer = new StringBuffer(); }:WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
< ESC: \ ( ["n","t","b","f","\",","r","\",","b","\",","r","\",","b",""]
| (["0","3"])? ["0","7"] (["0","7"])?
 )
>   { charValue = escapeChar(); stringBuffer.append(charValue); }
|< (""","\")>
   { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */

TOKEN:
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/*
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 common events code for signal events

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Douglas Gilbert
10th April 2012

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* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/output_html.properties
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/serializer/Encodings.properties

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* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xpath/operations/package.html
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 */
/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
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  jar/org/apache/xpath/functions/FuncDoclocation.java
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.  
 * @return String denoting our current version  
 */
public static String getVersion()
{
    return getProduct()+""+getImplementationLanguage()+""
        +getMajorVersionNum()+""+getReleaseVersionNum()+"".
        +(getDevelopmentVersionNum() > 0)?
            ("D"+getDevelopmentVersionNum()):(""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility with the release and contains no API changes.
* When missing, it designates the final and complete development drop for a release.
*/

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/

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* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/utils/SystemIDResolver.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/dom/ExtendedSAX.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/functions/FuncRound.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/processor/XSLTElementProcessor.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/utils/Utils.java
/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/templates/ElemCopy.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/ref/DTMDefaultBaseIterators.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/patterns/StepPattern.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/util/ErrorMsg.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/utils/DOMHelper.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xlapn/xsltc/compiler/Choose.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/Constants.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xpath/objects/XStringForChars.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/dom/DOMBuilder.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_es.java

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/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xml/serializer/dom3/DOM3TreeWalker.java

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/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/Process.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/FuncTranslate.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/lib/Redirect.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/RuntimeMessages_es.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/RuntimeMessages_tr.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/dom/DOMBuilder.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/domapi/XPathNamespaceImpl.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/res/XMLResSources_ko.java

/opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/res/XMLResSources_es.java

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* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/transformer/KeyRefIterator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/SecuritySupport.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/KeyPattern.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/permits/small/Variable.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/NodeConsumer.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/dtm/DTMIterator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/runtime/ErrorMessages_ja.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/templates/XMLSchemaDecls.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/runtime/ErrorMessages_ru.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/templates/XUnresolvedVariable.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/MutableAttrListImpl.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/util/ErrorMsgMessages_it.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/res/XSLTErrorResources_ru.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_zh_TW.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/RelativePathPattern.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/templates/XSLTVisitables.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_zh_TW.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xpath/res/XPATHErrorResources_sk.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/util/Util.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xpath/operations/Neg.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/startsWithCall.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/extensions/ExtensionNamespacesManager.java

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* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/cmdline/getopt/GetOptsException.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/compiler/IntExpr.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/runtime/ErrorMessages_sl.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xalan/transformer/Counter.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xalan/processor/ProcessorStylesheetDoc.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/index.html
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/ref/SecuritySupport.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/extensions/ExtensionHandlerJavaPackage.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/runtime/ErrorMessages_de.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/ElemContext.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/compiler/Util/ObjectType.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/DTMDOMException.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/axes/HasPositionalPredChecker.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xalan/xslt/runtime/BasisLibrary.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xalan/xslt/DOM.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xpath/xsltc/compiler/BinOpExpr.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/res/XMLErrorResources_ru.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/SecuritySupport.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/EncodingInfo.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/res/XMLErrorResources_ca.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/SecuritySupport.java
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* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/res/XMLErrorResources_ru.java
* /opt/cola/permits/110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/dtm/SecuritySupport.java
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* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/utils/SerializerMessages_sv.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xpath/objects/XNull.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/compiler/RealExpr.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/transformer/XSLInfiniteLoopException.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/utils/SystemIDResolver.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/xsltc/compiler/CastCall.java
Open Source Used In Cisco Identity Services Engine 3.2 12727
jar/org/apache/xalan/xsltc/compiler/XSLTC.java

* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/NSInfo.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/templates/XSLTVisitor.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/ParentLocationPath.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/templates/RedundentExprEliminator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/lib/sql/SQLErrorDocument.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/ThreadControllerWrapper.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/RawCharacterHandler.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/runtime/InternalRuntimeError.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/AncestorPattern.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/Instruction.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/NotCall.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/res/XMLErrorResources_sl.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/util/InternalError.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xpath/xajx/JAXPPrefixResolver.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/dom/SingletonIterator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/SAXSourceLocator.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xml/utils/ObjectStack.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/processor/ProcessorExsltFunction.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2.jar/org/apache/xalan/xsltc/compiler/util/InternalError.java
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Found in path(s):
* /opt/cola/permits/1110662886_1606842058.20/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/compiler/XPathLexer.java

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* /opt/cola/permits/1110662886_1606842058.20/serializer-2-7-2-sources-2-jar/org/apache/xalan/xslt/compiler/XPathLexer.java

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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-
  jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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 */

/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * * Futurework: have this read version info from jar manifest.
 * * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
    + getMajorVersionNum() + "." + getReleaseVersionNum() + "."
    + (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}
* Major version number.
* Version number. This changes only when there is a
  * significant, externally apparent enhancement from
  * the previous release. 'n' represents the n'th
  * version.
*
  * Clients should carefully consider the implications
  * of new versions as external interfaces and behaviour
  * may have changed.
*/
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
* Release Number.
* Release number. This changes when:
  * - a new set of functionality is to be added, eg,
  *   implementation of a new W3C specification.
  * - API or behaviour change.
  * - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

Found in path(s):
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-
  jar/org/apache/xml/utils/StopParseException.java
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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-
  jar/org/apache/xml/serializer/ToHTMLStream.java
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*/
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/Version.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1110662886_1606842058.2/0/serializer-2-7-2-sources-2-jar/org/apache/xml/serializer/Version.java

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 */
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;
        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;        
        }

        // If end of buffer, can't disambiguate :(
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }
}
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
            return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%

%eofval{
    return newSymbol(sym.EOF);
}%eofval%

%yylexthrow{
    Exception
}
Extender=[\u00B7\u02D0\u02D1\u0038\u0640\u0E46\u0EC6\u3005\u3031\u309D\u309E\u30FC\u30FE]
NCName=([Letter]|\u203F\u2040|\u0130-\u0136)
NCNameChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFF] | \u005F | ({HighSurrogate} | {LowSurrogate})
HighSurrogate=[\uD800-\uDBFF]
LowSurrogate=[\uDC00-\uDFFF]

%%

"*"    { return disambiguateStar(); }
"/"    { return newSymbol(sym.SLASH); }
"+"    { return newSymbol(sym.PLUS); }
"-"    { return newSymbol(sym.MINUS); }
"div"  { return disambiguateOperator(sym.DIV); }
"mod"  { return disambiguateOperator(sym.MOD); }
"::"   { return newSymbol(sym.DCOLON); }
","   { return newSymbol(sym.COMMA); }
"@"    { return newSymbol(sym.ATSIGN); }
".."   { return newSymbol(sym.DDOT); }
"|"    { return newSymbol(sym.VBAR); }
"$"    { return newSymbol(sym.DOLLAR); }
"//"   { return newSymbol(sym.DSLASH); }
"="   { return newSymbol(sym.EQ); }
"!="   { return newSymbol(sym.NE); }
"<"    { return newSymbol(sym.LT); }
">"    { return newSymbol(sym.GT); }
"<="   { return newSymbol(sym.LE); }
">="   { return newSymbol(sym.GE); }
"id"   { return disambiguateAxisOrFunction(sym.ID); }
"key"  { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text\+[\u\n\t\r]+\"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node\+[\u\n\t\r]+\"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment\+[\u\n\t\r]+\"()" { return new Symbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[
\t\n]"+"() { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
"[^\w]" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
"[^\w]*" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\.[Digit]*)? { return newSymbol(sym.REAL, new Double(yytext())); }
\.[Digit]+ { return newSymbol(sym.REAL, new Double(yytext())); }
\." { return newSymbol(sym.DOT); }
{NCName}"":"\{NCName\} { return newSymbol(sym.QNAME, yytext()); }
{NCName}""}}{NCName} { return newSymbol(sym.QNAME, yytext()); }
{NCName}"@"{NCName} { return newSymbol(sym.QNAME, yytext()); }
[ \t\n\f] /* ignore white space. */
" /*
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*/

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $ 
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */

}
/*
  private Parser _parser;
  private XSLTC _xsltc;
*/

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
  _parser = parser;
  _xsltc = parser.getXSLTC();
  _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
  return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
  return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
  return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
  _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
  _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
  _xsltc.setHasIdCall(flag);
}
/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

class createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {  // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    return new StepPattern(axis, nodeType, predicates);
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    return new StepPattern(axis, nodeType, predicates);
    } else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*") ? -1
            : _xsltc.registerNamespacePrefix(name));
        } else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@"))) {
                if (predicates == null) {
                    predicates = new Vector(2);
                }
                setPriority = (predicates.size() == 0);
            }
        // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);
        }
    }
}
predicates.add(new Predicate(new EqualityExpr(Operators.EQ, new NamespaceUriCall(namespace_uri), new LiteralExpr(uri))));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;

public int findNodeType(int axis, Object test) {
    if (test == null) { // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;
        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        } else if (test instanceof Integer) {
            return ((Integer)test).intValue();
        } else {
            QName name = (QName)test;
            if (axis == Axis.NAMESPACE) {
                return (name.toString().equals("*")) ? -1 :
                    _xsltc.registerNamespacePrefix(name);
            }
if (name.getNamespace() == null) {
    final String local = name.getLocalPart();

    if (local.equals("*")) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
    } else if (local.equals("@*")) {
        return NodeTest.ATTRIBUTE;
    }

    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
        _xsltc.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMessage error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMessage.SYNTAX_ERR, _lineNumber,
                                          _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    } else {
        addError(new ErrorMessage(ErrorMessage.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}


terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLOM, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;
precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
{ : RESULT = pattern; : }

| EXPRESSION Expr:expr
{ : RESULT = expr; : };

/* --------------------------- Patterns ------------------------------ */
Pattern ::= LocationPathPattern:lpp
{ : RESULT = lpp; : }

| LocationPathPattern:lpp VBAR Pattern:p
{ : RESULT = new AlternativePattern(lpp, p); : };

LocationPathPattern ::= SLASH
{ : RESULT = new AbsolutePathPattern(null); : }

| SLASH RelativePathPattern:rpp
{ : RESULT = new AbsolutePathPattern(rpp); : }

| IdKeyPattern:ikp
{ : RESULT = ikp; : }

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp
{ : RESULT = new ParentPattern(ikp, rpp); : }

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{ : RESULT = new AncestorPattern(ikp, rpp); : }

| DSLASH RelativePathPattern:rpp
{ : RESULT = new AncestorPattern(rpp); : }

| RelativePathPattern:rpp
{ : RESULT = rpp; : };

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{ : RESULT = new IdPattern(l);
    parser.setHasIdCall(true);
    : }
KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{: RESULT = pip; // TODO: report error if axis is attribute :}
ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp

::
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
::

NodeTestPattern ::= NameTestPattern:nt
:: RESULT = nt; ::

| NODE
:: RESULT = new Integer(NodeTest.ANODE); ::

| TEXT
:: RESULT = new Integer(NodeTest.TEXT); ::

| COMMENT
:: RESULT = new Integer(NodeTest.COMMENT); ::

| PI
:: RESULT = new Integer(NodeTest.PI); ::;

NameTestPattern ::= STAR
:: RESULT = null; ::

| QName:qn
:: RESULT = qn; ::;

ChildOrAttributeAxisSpecifier ::= ATSIGN
:: RESULT = new Integer(Axis.ATTRIBUTE); ::

| CHILD DCOLON
:: RESULT = new Integer(Axis.CHILD); ::

| ATTRIBUTE DCOLON
:: RESULT = new Integer(Axis.ATTRIBUTE); ::;

Predicates ::= Predicate:p
:: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
::

| Predicate:p Predicates:pp
:: pp.addElementAt(p, 0); RESULT = pp; ::;

Predicate ::= LBRACK Expr:e RBRACK
RESULT = new Predicate(e);
;

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
  { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
  { : RESULT = ae; : }
  | OrExpr:oe OR AndExpr:ae
  { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
  { : RESULT = e; : }
  | AndExpr:ae AND EqualityExpr:ee
  { : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : };

EqualityExpr ::= RelationalExpr:re
  { : RESULT = re; : }
  | EqualityExpr:ee EQ RelationalExpr:re
  { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }
  | EqualityExpr:ee NE RelationalExpr:re
  { : RESULT = new EqualityExpr(Operators.NE, ee, re); : };

RelationalExpr ::= AdditiveExpr:ae
  { : RESULT = ae; : }
  | RelationalExpr:re LT AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.LT, re, ae); : }
  | RelationalExpr:re GT AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.GT, re, ae); : }
  | RelationalExpr:re LE AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.LE, re, ae); : }
  | RelationalExpr:re GE AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.GE, re, ae); : };

AdditiveExpr ::= MultiplicativeExpr:me
  { : RESULT = me; : }
AdditiveExpr::ae PLUS MultiplicativeExpr::me
{ :: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me): ; }

AdditiveExpr::ae MINUS MultiplicativeExpr::me
{ :: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me): ; }

MultiplicativeExpr ::= UnaryExpr::ue
{ :: RESULT = ue; ; }

| MultiplicativeExpr::me MULT UnaryExpr::ue
| { :: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue): ; }

| MultiplicativeExpr::me DIV UnaryExpr::ue
{ :: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue): ; }

| MultiplicativeExpr::me MOD UnaryExpr::ue
{ :: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue): ; }

UnaryExpr ::= UnionExpr::ue
{ :: RESULT = ue; ; }

| MINUS UnaryExpr::ue
{ :: RESULT = new UnaryOpExpr(ue); ; }

UnionExpr ::= PathExpr::pe
{ :: RESULT = pe; ; }

| PathExpr::pe VBAR UnionExpr::rest
{ :: RESULT = new UnionPathExpr(pe, rest); ; }

PathExpr ::= LocationPath::lp
{ :: RESULT = lp; ; }

| FilterExpr::fexp
{ :: RESULT = fexp; ; }
| FilterExpr::fexp SLASH RelativeLocationPath::rlp
{ :: RESULT = new FilterParentPath(fexp, rlp); ; }

| FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{ ;
  // Expand '//' into '/descendant-or-self::node()' or
  // into /descendant-or-self::*
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))

final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
    { RESULT = rlp; : }
| AbsoluteLocationPath:alp
    { RESULT = alp; : }

RelativeLocationPath ::= Step:step
    { RESULT = step; : }
| RelativeLocationPath:rlp SLASH Step:step
    { if (rlp instanceof Step & ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;       // Remove './' from the middle
    } else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove '/.' from the end
    } else {
        RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
    } }
| AbbreviatedRelativeLocationPath:arlp
    { RESULT = arlp; : }

AbsoluteLocationPath ::= SLASH
    { RESULT = new AbsoluteLocationPath(); : }
| SLASH RelativeLocationPath:rlp
    { RESULT = new AbsoluteLocationPath(rlp); : }
| AbbreviatedAbsoluteLocationPath:aalp
    { RESULT = aalp; : }

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress './child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        }
    } else {
        // Expand 'rlp/child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand './step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    } else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

AbbreviatedAbsoluteLocationPath ::= D SLASH RelativeLocationPath:rlp
    {
        //
        // Expand '//' into '/descendant-or-self::node()' or
        // into /descendant-or-self::*
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
                parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step,
                (RelativeLocationPath) rlp));
    };

Step ::= NodeTest:ntest
    {
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
        }
    };

| NodeTest:ntest Predicates:pp
    {
        if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
        }
    };

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
| : RESULT = new Step(axis.intValue(),
| parser.findNodeType(axis.intValue(), ntest),
| pp);
| :
|
| AxisSpecifier:axis NodeTest:ntest
| : RESULT = new Step(axis.intValue(),
| parser.findNodeType(axis.intValue(), ntest),
| null);
| :
|
| AbbreviatedStep:abbrev
| : RESULT = abbrev; :;

AxisSpecifier ::= AxisName:an DCOLON
| : RESULT = an; :
|
| ATSIGN
| : RESULT = new Integer(Axis.ATTRIBUTE); :

AxisName ::= ANCESTOR
| : RESULT = new Integer(Axis.ANCESTOR); :
|
| ANCESTORORSELF
| : RESULT = new Integer(Axis.ANCESTORORSELF); :
|
| ATTRIBUTE
| : RESULT = new Integer(Axis.ATTRIBUTE); :
|
| CHILD
| : RESULT = new Integer(Axis.CHILD); :
|
| DESCENDANT
| : RESULT = new Integer(Axis.DESCENDANT); :
|
| DESCENDANTORSELF
| : RESULT = new Integer(Axis.DESCENDANTORSELF); :
|
| FOLLOWING
| : RESULT = new Integer(Axis.FOLLOWING); :
|
| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); :
|
| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); :}
| PARENT  |
| : RESULT = new Integer(Axis.PARENT); |

| PRECEDING  |
| : RESULT = new Integer(Axis.PRECEDING); |

| PRECEDINGSIBLING  |
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); |

| SELF  |
| : RESULT = new Integer(Axis.SELF); |

AbbreviatedStep ::= DOT  
| : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); |

| DDOT  |
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); |

FilterExpr ::=  PrimaryExpr:primary  
| : RESULT = primary; |

| PrimaryExpr:primary Predicates:pp  |
| : RESULT = new FilterExpr(primary, pp); |

PrimaryExpr ::= VariableReference:vr  
| : RESULT = vr; |

| LPAREN Expr:ex RPAREN  |
| : RESULT = ex; |

| Literal:string  |
| :  
  /*  
  * If the string appears to have the syntax of a QName, store  
  * namespace info in the literal expression. This is used for  
  * element-available and function-available functions, among  
  * others. Also, the default namespace must be ignored.  
  */  
  String namespace = null;  
  final int index = string.lastIndexOf(‘:’);  
  if (index > 0) {  
    final String prefix = string.substring(0, index);  
    namespace = parser._symbolTable.lookupNamespace(prefix);  
  }  
  RESULT = (namespace == null) ? new LiteralExpr(string)  
  : new LiteralExpr(string, namespace); |
| INT:num |
| :long value = num.longValue(); |
| if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) { |
| RESULT = new RealExpr(value); |
| } |
| else { |
| if (num.doubleValue() == -0) |
| RESULT = new RealExpr(num.doubleValue()); |
| else if (num.intValue() == 0) |
| RESULT = new IntExpr(num.intValue()); |
| else if (num.doubleValue() == 0.0) |
| RESULT = new RealExpr(num.doubleValue()); |
| else |
| RESULT = new IntExpr(num.intValue()); |
| } |

| REAL:num |
| :RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall:fc |
| :RESULT = fc; |

VariableReference ::= DOLLAR VariableName:varName

| :
| // An empty qname prefix for a variable or parameter reference
| // should map to the null namespace and not the default URI.
| SyntaxTreeNode node = parser.lookupName(varName);

| if (node != null) { |
| if (node instanceof Variable) { |
| RESULT = new VariableRef((Variable)node); |
| } |
| else if (node instanceof Param) { |
| RESULT = new ParameterRef((Param)node); |
| } |
| else { |
| RESULT = new UnresolvedRef(varName); |
| } |

| if (node == null) { |
| RESULT = new UnresolvedRef(varName); |
| } |

| :|
FunctionCall ::= FunctionName:fname LPAREN RPAREN

{:  
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }  
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }  
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    }  
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    }  
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    }  
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    }  
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }  
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }  
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }  
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    }  
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    }  
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
    }  
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname);
    }  
    else {
        RESULT = new FunctionCall(fname, parser.EmptyArgs);
    }
}
<table>
<thead>
<tr>
<th>FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>if (parser.getQNameIgnoreDefaultNs(&quot;concat&quot;).equals(fname)) {</td>
</tr>
<tr>
<td>RESULT = new ConcatCall(fname, argl);</td>
</tr>
</tbody>
</table>
| }
| else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) { |
|     RESULT = new NumberCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) { |
|     parser.setMultiDocument(true); |
|     RESULT = new DocumentCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) { |
|     RESULT = new StringCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) { |
|     RESULT = new BooleanCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) { |
|     RESULT = new NameCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) { |
|     RESULT = new GenerateIdCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) { |
|     RESULT = new NotCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) { |
|     RESULT = new FormatNumberCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) { |
|     RESULT = new UnparsedEntityUriCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) { |
|     RESULT = new KeyCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) { |
|     RESULT = new KeyCall(fname, argl); |
|     parser.setHasIdCall(true); |
| }
| else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) { |
|     RESULT = new CeilingCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) { |
|     RESULT = new RoundCall(fname, argl); |
| }
| else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) { |
|     RESULT = new FloorCall(fname, argl); |
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new.StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQNameIgnoreCase(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}

else {
    RESULT = new FunctionCall(fname, argl);
}
}

NonemptyArgumentList ::= Argument:arg
{| :
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    :}

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :}{
FunctionName ::= QName:fname
{: 
RESULT = fname; :}

VariableName ::= QName:vname
{: 
RESULT = vname; :}

Argument ::= Expr:ex
{: RESULT = ex; :}

NodeTest ::= NameTest:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
{: 
QName name = parser.getQNameIgnoreDefaultNs("name"); 
Expression exp = new EqualityExpr(Operators.EQ, 
    new NameCall(name), 
    new LiteralExpr(l)); 
Vector predicates = new Vector(); 
predicates.addElement(new Predicate(exp)); 
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :}

QName ::= QNAME:qname
{: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}
| DIV
  { RESULT = parser.getQNameIgnoreDefaultNs("div"); } |

| MOD
  { RESULT = parser.getQNameIgnoreDefaultNs("mod"); } |

| KEY
  { RESULT = parser.getQNameIgnoreDefaultNs("key"); } |

| ANCESTOR
  { RESULT = parser.getQNameIgnoreDefaultNs("child"); } |

| ANCESTORORSELF
  { RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); } |

| ATTRIBUTE
  { RESULT = parser.getQNameIgnoreDefaultNs("attribute"); } |

| CHILD
  { RESULT = parser.getQNameIgnoreDefaultNs("child"); } |

| DESCENDANT
  { RESULT = parser.getQNameIgnoreDefaultNs("decendant"); } |

| DESCENDANTORSELF
  { RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); } |

| FOLLOWING
  { RESULT = parser.getQNameIgnoreDefaultNs("following"); } |

| FOLLOWINGSIBLING
  { RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); } |

| NAMESPACE
  { RESULT = parser.getQNameIgnoreDefaultNs("namespace"); } |

| PARENT
  { RESULT = parser.getQNameIgnoreDefaultNs("parent"); } |

| PRECEDING
  { RESULT = parser.getQNameIgnoreDefaultNs("preceding"); } |

| PRECEDINGSIBLING
  { RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); } |

| SELF
  { RESULT = parser.getQNameIgnoreDefaultNs("self"); } |
{ : RESULT = parser.getQNameIgnoreDefaultNs("id"); : }

Found in path(s):
* /opt/cola/permits/1110662886_1606842058.20/serializer-2-7-2-sources-2.jar/org/apache/xalan/xslt/compiler/xpath.cup

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 */

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}
/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 */
* Optional identifier designates development drop of
  * a specific release. D01 is the first development drop
  * of a new release.
  *
  * Development drops are works in progress towards a
  * completed, final release. A specific development drop
  * may not completely implement all aspects of a new
  * feature, which may take several development drops to
  * complete. At the point of the final drop for the
  * release, the D suffix will be omitted.
  *
  * Each 'D' drops can contain functional enhancements as
  * well as defect fixes. 'D' drops may not be as stable as
  * the final releases.
  */

public static final int DEVELOPMENT = 0;

/**
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */

public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " " + VERSION + "." + RELEASE + "," + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT) : ("" + MAINTENANCE));

*/

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/integration_test.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/kqueue.go
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/inotify_poller_test.go
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/fsnotify_test.go
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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/open_mode_bsd.go
* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/open_mode_darwin.go
1.796 iwl5000-firmware 8.83.5.1_1-97.el8.1

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1.797 openjdk-jre 11.0.13u8
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* Xlib Extension-Writing Utilities

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Additional -

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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```
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
```

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides in
stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

```
WordBreakTestUnicode_*_.java (under modules/analysis/common/src/test/)
```

is derived from Unicode data such as the Unicode Character Database.
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The Morfologik analyzer (morfo) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfo.blogspot.com/).

```
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```

```
Morfologic includes data from BSD-licensed dictionary of Polish (SGJP)
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional  -

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File: PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/io/InputStreamSource.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/TypeMismatchException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jms/listener/AbstractPollingMessageListenerContainer.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/toplink/SessionFactory.java
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jar/org/springframework/remoting/jaxrpc/LocalJaxRpcServiceFactory.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/context/ApplicationContextAware.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/scheduling/backportconcurrent/ScheduledExecutorTask.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/servlet/HandlerMapping.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/jms/connection/SingleConnectionFactory.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/jms/connection/JmsTransactionManager.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/portlet/handler/ParameterHandlerMapping.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/core/NestedCheckedException.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/filter/RequestContextFilter.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/servlet/mvc/AbstractCommandController.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/jms/JmsSecurityException.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
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* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
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jar/org/springframework/web/servlet/mvc/AbstractCommandController.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/jms/JmsSecurityException.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/beans/factory/BeanNameAware.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/core/NestedCheckedException.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/filter/RequestContextFilter.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/aop/framework/AdvisorChainFactoryUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/remoting/caucho/BurlapClientInterceptor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/web/struts/DelegatingRequestProcessor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/aop/IntroductionInterceptor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/web/view/jasperreports/AbstractJasperReportsView.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar
  /org/springframework/jms/listener/DefaultMessageListenerContainer.java

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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/test/annotation/AbstractAnnotationAwareTransactionalTests.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/bind/PortletRequestUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/filter/GenericFilterBean.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/view/tiles/TilesConfigurer.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/core/ArgPreparedStatementSetter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/util/PathMatcher.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/scheduling/quartz/SimpleTriggerBean.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/beans/support/ArgumentConvertingMethodInvoker.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/jdbc/core/ArgPreparedStatementSetter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/aop/support/ClassFilters.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/beans/factory/BeanNotOfRequiredTypeException.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/framework/test/AbstractTransactionalSpringContextTests.java
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* /opt/cola/permits/1115011189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jndi/JndiObjectLocator.java
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* /opt/cola/permits/1115011189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/util/HtmlUtils.java
* /opt/cola/permits/1115011189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/util/HtmlUtils.java
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jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
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/**
 **
 * SPI strategy that encapsulates certain functionality that standard JDO 1.0 does
 * not offer despite being relevant in the context of O/R mapping, such as access to
 * the underlying JDBC Connection and explicit flushing of changes to the database.
 * Also defines various further hooks that even go beyond standard JDO 2.0.
 *
 * <p>To be implemented for specific JDO providers such as JPOX, Kodo, Lido,
 * Versant Open Access. Almost every O/R-based JDO provider offers proprietary
 * means to access the underlying JDBC Connection and to explicitly flush changes;
 */
* hence, this would be the minimum functionality level that should be supported.
*<p>*<p>JDO 2.0 defines standard ways for most of the functionality covered here.
* Hence, Spring's DefaultJdoDialect uses the corresponding JDO 2.0 methods
* by default, to be overridden in a vendor-specific fashion if necessary.
* Vendor-specific subclasses of DefaultJdoDialect are still required for special
* transaction semantics and more sophisticated exception translation (if needed).
*<p>*<p>In general, it is recommended to derive from DefaultJdoDialect instead of
* implementing this interface directly. This allows for inheriting common
* behavior (present and future) from DefaultJdoDialect, only overriding
* specific hooks to plug in concrete vendor-specific behavior.
*<p>*<p>@author Juergen Hoeller
* @since 02.11.2003
* @see JdoTransactionManager#setJdoDialect
* @see JdoAccessor#setJdoDialect
* @see DefaultJdoDialect
*/

Found in path(s):
*/opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/orm/jdo/JdoDialect.java
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/*
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle's peculiar handling of LOBs in
* OracleLobHandler; most other databases should work with DefaultLobHandler.
*<p>* Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
LobCreators are typically instantiated for each statement execution or for each transaction. They are not thread-safe because they might track allocated database resources to be able to free them after execution.

Most databases/drivers should be able to work with DefaultLobHandler, which simply delegates to JDBC's direct accessor methods, avoiding java.sql.Blob and java.sql.Clob completely.

Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn't accept large streams for PreparedStatement's corresponding setter methods. Therefore, you need to use OracleLobHandler there, which uses Oracle's BLOB/CLOB API for both all access.

The Oracle 10g JDBC driver should work with DefaultLobHandler too.

Of course, you need to declare different field types for each database. In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, just use a LobHandler for fields that might typically require LOBs on some database because of their size (take Oracle's numbers as a guideline).

@since 23.12.2003
@see DefaultLobHandler
@see OracleLobHandler
@see java.sql.ResultSet#getBlob
@see java.sql.ResultSet#getClob
@see java.sql.ResultSet#getBytes
@see java.sql.ResultSet#getBinaryStream
@see java.sql.ResultSet#getString
@see java.sql.ResultSet#getAsciiStream
@see java.sql.ResultSet#getCharacterStream

Found in path(s):
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/bind/escapedErrors.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mock/web/portlet/mockPortletURL.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/toqlink/TopLinkOptimisticLockingFailureException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/task/TaskExecutor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/SpringVersion.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jms/support/destination/DestinationResolutionException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitPostProcessor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/mvc/SimpleControllerHandlerAdapter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mock/web/portlet/MockMultipartActionRequest.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/view/velocity/VelocityViewResolver.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/view/velocity/VelocityLayoutView.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jms/listener/adapter/ListenerExecutionFailedException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/mvc/Controller.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
Developers within the open-source community have contributed to the development of Cisco Identity Services Engine 3.2 with the use of various open-source libraries.

- **/opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/annotation/InstantiationModelAwarePointcutAdvisorImpl.java**
- **/opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mock/web/portlet/MockPortletConfig.java**
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/service/transaction/Interceptor/JdoOperations.java

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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/jpa/EntityManagerFactoryPlus.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/util/PortletRequestWrapper.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/LocaleResolver.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jms/support/JmsUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/ModelAndView.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/FatalBeanException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/remoting/caucho/HessianSkeletonInvoker.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mail/MailAuthenticationException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/remoting/httpinvoker/SimpleHttpInvokerRequestExecutor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/remoting/RemoteAccessException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jmx/JmxException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/ObjectOptimisticLockingFailureException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/util/ActionRequestWrapper.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/handler/AbstractMapBasedHandlerMapping.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/BeanMetadataElement.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/NotWritablePropertyException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/Ordered.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/handler/SimplePortletHandlerAdapter.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mock/web/portlet/MockRenderResponse.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/struts/AutowiringRequestProcessor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/open-source-used-in-cisco-identity-services-engine-3.2-13314
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The classes in this package make JDBC easier to use and
reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/final blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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LobHandler implementation for Oracle databases. Uses proprietary API to
create oracle.sql.BLOB and oracle.sql.CLOB instances, as necessary when working with Oracle's JDBC driver.
Note that this LobHandler requires Oracle JDBC driver 9i or higher!

While most databases are able to work with DefaultLobHandler, Oracle just
accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API,
and additionally doesn't accept large streams for PreparedStatement's
corresponding setter methods. Therefore, you need to use a strategy like
this LobHandler implementation.

Needs to work on a native JDBC Connection, to be able to cast it to
oracle.jdbc.OracleConnection. If you pass in Connections from
a connection pool (the usual case in a J2EE environment), you need to set
an appropriate NativeJdbcExtractor to allow for automatical retrieval of
the underlying native JDBC Connection. LobHandler and NativeJdbcExtractor
are separate concerns, therefore they are represented by separate strategy
interfaces.

Coded via reflection to avoid dependencies on Oracle classes.
Even reads in Oracle constants via reflection because of different Oracle
drivers (classes12, ojdbc14) having different constant values! As this
LobHandler initializes Oracle classes on instantiation, do not define this
as eager-initializing singleton if you do not want to depend on the Oracle
JAR being in the class path: use "lazy-init=true" to avoid this issue.

@since 04.12.2003
@see setNativeJdbcExtractor
@see oracle.sql.BLOB
@see oracle.sql.CLOB

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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/portlet/context/PortletContextAware.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/ViewResolver.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/scheduling/timer/MethodInvokingTimerTaskFactoryBean.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/mock/jndi/SimpleNamingContextBuilder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/aop/PointcutAdvisor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/orm/hibernate3/SessionHolder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/mvc/throwaway/ThrowawayController.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/core/ControlFlow.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-
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13326
jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
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/*
** XSLT-driven View that allows for response context to be rendered as the
** result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link #locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link #getSourceTypes() here]
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link #setOutputProperties output properties]
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

Found in path(s):
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/web/portlet/bind/PortletRequestDataBinder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/validation/DataBinder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/jms/core/JmsTemplate.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/orm/toqlink/LocalSessionFactory.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/beans/factory/access/SingletonBeanFactoryLocator.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/runner/post/reflect/ReflectionUtils.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/web/bind/ServletRequestDataBinder.java
* /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources.jar/web/bind/WebDataBinder.java

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 */
/**
 * FactoryBean that obtains a WebSphere \( @\text{link} \text{javax.management.MBeanServer} \) reference through WebSphere's proprietary \text{AdminServiceFactory} API, available on WebSphere 5.1 and higher.
 * <p>Exposes the \text{MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to \{ @\text{link} \text{MBeanServerFactoryBean} \},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

 Found in path(s):
 * /opt/cola/permits/1111501189_1615418294.21/0/spring-2-0-8-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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 * limitations under the License.
 */
/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Else, the database resources for the temporary BLOBs might stay allocated.
 */

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/**
* Strategy interface for translating between [@link SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [@link DataAccessException]
* hierarchy.
*<p>Implementations can be generic (for example, using
* [@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
*/
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 */
/**
 * FactoryBean that obtains a specified WebLogic [ @link javax.management.MBeanServer]
 * reference through WebLogic's proprietary <code>Helper</code> /
 * <code>MBeanHome</code> API, which is available on WebLogic 6.1 and higher.
 *
 * <p>Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>Note: There is also a [ @link WebLogicJndiMBeanServerFactoryBean] for
 * accessing the WebLogic <code>MBeanServer</code> instance through a WebLogic
 * <code>MBeanHome</code> obtained via a JNDI lookup, typical a local one.
 *
 * <p><b>NOTE: This class is only intended for use with WebLogic up to 8.1.</b>
 * On WebLogic 9.x, simply obtain the MBeanServer directly from the JNDI location
 * "java:comp/env/jmx/runtime", for example through the following configuration:
 *
 * &lt;pre&gt;
 * &lt;bean class="org.springframework.jndi.JndiObjectFactoryBean"&gt;
 * &lt;property name="jndiName" value="java:comp/env/jmx/runtime"/&gt;
 * &lt;/bean&gt; &lt;/pre&gt;
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 1.2
 * @see weblogic.management.Helper#getMBeanHome(String, String, String, String)
 * @see weblogic.management.MBeanHome#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 * @see WebLogicJndiMBeanServerFactoryBean
 */
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 */

Found in path(s):
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/aop/target/dynamic/Refreshable.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/orm/hibernate/LocalTransactionManagerLookup.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/context/MessageSourceResolvable.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/bind/BindInitializer.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/orm/hibernate3/LocalDataSourceConnectionProvider.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/beans/PropertyValues.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/test/annotation/DirtiesContext.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/orm/hibernate/LocalDataSourceConnectionProvider.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/context/MessageSource.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
jar/org/springframework/web/bind/BindInitializer.java
* /opt/cola/permits/111501189_1615418294.21/0/spring-2-0-8-sources-
1.822 kmod 25

1.822.1 Available under license:

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File: PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.825 mariadb-connector-c 3.0.7-1.el8

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1.830 snmp-4j 2.6.2

1.831 subscription-manager-rhsm-certificates

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* DNS resolver (dirmngr/dns.c)

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1.846 cups-lib 2.2.6-33.el8

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

1.847 open-vm-tools 11.0.0-4.el8

1.847.1 Available under license:

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

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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.

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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* /opt/cola/permits/1166802686_1621500044.47/0/powermock-module-testng-1-7-0-sources-1-jar/org/powermock/modules/testng/internal/TestClassInstanceFactory.java
* /opt/cola/permits/1166802686_1621500044.47/0/powermock-module-testng-1-7-0-sources-1-jar/org/powermock/modules/testng/internal/Assumes.java
* /opt/cola/permits/1166802686_1621500044.47/0/powermock-module-testng-1-7-0-sources-1-jar/org/powermock/modules/testng/internal/ClassLoaderFactory.java
* /opt/cola/permits/1166802686_1621500044.47/0/powermock-module-testng-1-7-0-sources-1-jar/org/powermock/modules/testng/internal/PowerMockClassLoaderObjectFactory.java

1.852 libmbim 1.20.2 1.el8
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 common events code for fd events

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

-----------------------------------------------------------------------------------------------
Files: *
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---

1.864 go-flags 1.5.0

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1.865 logstash-input-imap 3.2.0

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 */
/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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/*
*p
*A method-level constraint, that evaluates a script expression against the
*annotated method or constructor. This constraint can be used to implement
*validation routines that depend on several parameters of the annotated
*executable.
*</p>
<p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
*</p>
<p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
*</p>
<pre>
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
</pre>
<p>
* Can be specified on any method or constructor.
*</p>
<p>
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/constraints/br/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/constraints/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/constraintvalidation/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/constraintvalidation/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/engine/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/raw/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/provider/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/engine/groups/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/location/package.html
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/overview.html

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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/cfg/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageState.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/facets/Validatable.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/past/PastValidatorForInstant.java

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* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/util/privilegedactions/SetContextClassLoader.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/core/ConstraintOrigin.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/context/GroupConversionTargetContext.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/core/MetaConstraint.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/context/ReturnValueConstraintMappingContext.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/defs/Mod11CheckDef.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/DigitsValidatorForCharSequence.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/context/GroupConversionTargetContext.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
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* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
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1.867 html5-sortable-jquery-plugin 3.0

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* /opt/cola/permits/1180062466_1626309580.83/0/html-sortable-js-1-zip/html.sortable.js

1.868 x-xerrors 0.0.0-20200804184101-5ec99f83aff1

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abstract: 'Expand tabs and do simple line wrapping'
author:
- 'David Muir Sharnoff <muir@idiom.org>'
built_requires:
ExtUtils::MakeMaker: 0
configure_requires:
ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Text-Tabs+Wrap
no_index:
directory:
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resources:
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1.882 oklog-ulid 1.3.1

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1.891 pkg-config 1.5.1
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1.892 javax-ws-rs-api 2.1.1

1.893 logstash-output-null 3.0.5
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1.896 dbus-daemon 1.12.8-10.el8_2

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1.901 leveldb 1.23

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1.904 debianutils 4.9.1

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Tests included here are based on build output generated by the six-speed benchmark suite.

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Written by: Philip Hazel
Email local part: ph10
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.907 perl-digest-md5 2.55-396.el8

1.907.1 Available under license:

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The Digest::MD5 module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. MD5 is described in RFC 1321.

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Found in path(s):
* /opt/cola/permits/1175308944_1624358404.66/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-TawBEZ1Y/Digest-MD5-2.55.tar.gz-cosi-expand-archive-bQwGWjUa/Digest-MD5-2.55/README

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/*
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 *
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 *
 * This code is derived from Neil Winton's MD5-1.7 Perl module, which in
 * turn is derived from the reference implementation in RFC 1321 which
 * comes with this message:
 *
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---
abstract: 'Perl interface to the MD-5 algorithm'
author:  
- 'Gisle Aas <gisle@activestate.com>'
built_requires: 
ExtUtils::MakeMaker: '0'
Network Working Group                    R. Rivest
Request for Comments: 1321               MIT Laboratory for Computer Science
                                          and RSA Data Security, Inc.
                                          April 1992

The MD5 Message-Digest Algorithm

Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard. Distribution of this memo is unlimited.

Acknowledgements

We would like to thank Don Coppersmith, Burt Kaliski, Ralph Merkle, David Chaum, and Noam Nisan for numerous helpful comments and suggestions.

Table of Contents
1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit “fingerprint” or “message digest” of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

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The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm 1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain.
For OSI-based applications, MD5's object identifier is

\[
\text{md5 OBJECT IDENTIFIER ::= } \\
\text{iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5}
\]

In the X.509 type AlgorithmIdentifier \[3\], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let \( x_i \) denote "x sub i". If the subscript is an expression, we surround it in braces, as in \( x_{i+1} \). Similarly, we use ^ for superscripts (exponentiation), so that \( x^i \) denotes \( x \) to the \( i \)-th power.

Let the symbol "+" denote addition of words (i.e., modulo-2^32 addition). Let \( X <<< s \) denote the 32-bit value obtained by circularly shifting (rotating) \( X \) left by \( s \) bit positions. Let \( \text{not}(X) \) denote the bit-wise complement of \( X \), and let \( X \lor Y \) denote the bit-wise OR of \( X \) and \( Y \). Let \( X \oplus Y \) denote the bit-wise XOR of \( X \) and \( Y \), and let \( XY \) denote the bit-wise AND of \( X \) and \( Y \).

3. MD5 Algorithm Description

We begin by supposing that we have a \( b \)-bit message as input, and that we wish to find its message digest. Here \( b \) is an arbitrary nonnegative integer; \( b \) may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the
message written down as follows:

\[ m_0 \ m_1 \ldots \ m_{b-1} \]

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than \(2^{64}\), then only the low-order 64 bits of b are used. (These bits are appended as two 32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let \(M[0 \ldots N-1]\) denote the words of the resulting message, where \(N\) is a multiple of 16.

3.3 Step 3. Initialize MD Buffer

A four-word buffer \((A,B,C,D)\) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

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We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

\[
\begin{align*}
F(X,Y,Z) &= XY \lor \text{not}(X) Z \\
G(X,Y,Z) &= XZ \lor Y \text{not}(Z) \\
H(X,Y,Z) &= X \oplus Y \oplus Z \\
I(X,Y,Z) &= Y \oplus (X \lor \text{not}(Z))
\end{align*}
\]

In each bit position \( F \) acts as a conditional: if \( X \) then \( Y \) else \( Z \).
The function \( F \) could have been defined using \( + \) instead of \( \lor \) since \( XY \) and \( \text{not}(X)Z \) will never have 1’s in the same bit position.) It is interesting to note that if the bits of \( X \), \( Y \), and \( Z \) are independent and unbiased, the each bit of \( F(X,Y,Z) \) will be independent and unbiased.

The functions \( G \), \( H \), and \( I \) are similar to the function \( F \), in that they act in "bitwise parallel" to produce their output from the bits of \( X \), \( Y \), and \( Z \), in such a manner that if the corresponding bits of \( X \), \( Y \), and \( Z \) are independent and unbiased, then each bit of \( G(X,Y,Z) \), \( H(X,Y,Z) \), and \( I(X,Y,Z) \) will be independent and unbiased. Note that the function \( H \) is the bit-wise "xor" or "parity" function of its inputs.

This step uses a 64-element table \( T[1 \ldots 64] \) constructed from the sine function. Let \( T[i] \) denote the i-th element of the table, which is equal to the integer part of \( 4294967296 \times \text{abs}(\sin(i)) \), where \( i \) is in radians. The elements of the table are given in the appendix.

Do the following:

/* Process each 16-word block. */
For \( i = 0 \) to \( N/16-1 \) do

/* Copy block \( i \) into \( X \). */
For \( j = 0 \) to \( 15 \) do
    Set \( X[j] \) to \( M[i*16+j] \).
end /* of loop on \( j \) */

/* Save \( A \) as AA, \( B \) as BB, \( C \) as CC, and \( D \) as DD. */
AA = A
BB = B

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CC = C
DD = D

/* Round 1. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 0  7  1] [DABC 1 12  2] [CDAB 2 17  3] [BCDA 3 22  4]
[ABCD 4  7  5] [DABC 5 12  6] [CDAB 6 17  7] [BCDA 7 22  8]
[ABCD 8  7  9] [DABC 9 12 10] [CDAB 10 17 11] [BCDA 11 22 12]
[ABCD 12  7 13] [DABC 13 12 14] [CDAB 14 17 15] [BCDA 15 22 16]

/* Round 2. */
/* Let [abcd k s i] denote the operation
   a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 1  5 17] [DABC 6  9 18] [CDAB 11 14 19] [BCDA 0 20 20]
[ABCD 5  5 21] [DABC 10  9 22] [CDAB 15 14 23] [BCDA 4 20 24]
[ABCD 9  5 25] [DABC 14  9 26] [CDAB 3 14 27] [BCDA 8 20 28]
[ABCD 13  5 29] [DABC  2  9 30] [CDAB 7 14 31] [BCDA 12 20 32]

/* Round 3. */
/* Let [abcd k s t] denote the operation
   a = b + ((a + H(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 5  4 33] [DABC 8 11 34] [CDAB 11 16 35] [BCDA 14 23 36]
[ABCD 1  4 37] [DABC 4 11 38] [CDAB 7 16 39] [BCDA 10 23 40]
[ABCD 13  4 41] [DABC 0 11 42] [CDAB 3 16 43] [BCDA 6 23 44]
[ABCD 9  4 45] [DABC 12 11 46] [CDAB 15 16 47] [BCDA 2 23 48]

/* Round 4. */
/* Let [abcd k s t] denote the operation
   a = b + ((a + I(b,c,d) + X[k] + T[i]) <<< s). */
/* Do the following 16 operations. */
[ABCD 0  6 49] [DABC 7 10 50] [CDAB 14 15 51] [BCDA 5 21 52]
[ABCD 12  6 53] [DABC 3 10 54] [CDAB 10 15 55] [BCDA 1 21 56]
[ABCD 8  6 57] [DABC 15 10 58] [CDAB 6 15 59] [BCDA 13 21 60]
[ABCD 4  6 61] [DABC 11 10 62] [CDAB 2 15 63] [BCDA 9 21 64]
Then perform the following additions. (That is, increment each
of the four registers by the value it had before this block
was started.) */
A = A + AA
B = B + BB
C = C + CC
D = D + DD
end /* of loop on i */
(XZ v Y not(Z)) to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

References


APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

global.h -- global header file

md5.h -- header file for MD5

md5c.c -- source code for MD5
For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different platforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

/* GLOBAL.H - RSAREF types and constants */

/* PROTOTYPES should be set to one if and only if the compiler supports function argument prototyping. The following makes PROTOTYPES default to 0 if it has not already been defined with C compiler flags. */
#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;
/* PROTO_LIST is defined depending on how PROTOTYPES is defined above. If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it returns an empty list. */
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif

A.2 md5.h

/* MD5.H - header file for MD5C.C */

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved. */

/* MD5 context. */
typedef struct {

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/* MD5 context. */
typedef struct {

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST
((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));

A.3 md5.c

/* MD5.C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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*/

#include "global.h"
#include "md5.h"

/* Constants for MD5Transform routine. */

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#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10
#define S43 15
#define S44 21

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST
((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST
((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {
0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4. Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) \
(a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); \ 
(a) = ROTATE_LEFT ((a), (s)); \ 

#define GG(a, b, c, d, x, s, ac) { 
(a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); \ 
(a) = ROTATE_LEFT ((a), (s)); \ 
(a) += (b); \ 
} 

#define HH(a, b, c, d, x, s, ac) { 
(a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); \ 
(a) = ROTATE_LEFT ((a), (s)); \ 
(a) += (b); \ 
} 

#define II(a, b, c, d, x, s, ac) { 
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); \ 
(a) = ROTATE_LEFT ((a), (s)); \ 
(a) += (b); \ 
} 

/* MD5 initialization. Begins an MD5 operation, writing a new context. */ 
void MD5Init (context) 
MD5_CTX *context; /* context */ 
{ 
context->count[0] = context->count[1] = 0; 
/* Load magic initialization constants. */ 
context->state[0] = 0x67452301; 
context->state[1] = 0xefcdab89; 
context->state[2] = 0x98badcfe; 
context->state[3] = 0x10325476; 
} 

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */ 
void MD5Update (context, input, inputLen) 
MD5_CTX *context; /* context */
unsigned char *input; /* input block */
unsigned int inputLen; /* length of input block */
{
    unsigned int i, index, partLen;

    /* Compute number of bytes mod 64 */
    index = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3))
< ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);

    partLen = 64 - index;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        MD5_memcpy
    ((POINTER)&context->buffer[index], (POINTER)input, partLen);
        MD5Transform (context->state, context->buffer);

        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform (context->state, &input[i]);

        index = 0;
    } else
        i = 0;

    /* Buffer remaining input */
    MD5_memcpy
    ((POINTER)&context->buffer[index], (POINTER)&input[i],
        inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
the message digest and zeroizing the context. */
void MD5Final (digest, context)
unsigned char digest[16]; /* message digest */
MD5_CTX *context; /* context */
{
    unsigned char bits[8];
    unsigned int index, padLen;

    /* Save number of bits */
    Encode (bits, context->count, 8);

    /* Pad out to 56 mod 64. */
    index = (unsigned int)((context->count[0] >> 3) & 0x3f);
    padLen = (index < 56) ? (56 - index) : (120 - index);
    MD5Update (context, PADDING, padLen);

    /* Append length (before padding) */
    MD5Update (context, bits, 8);

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    /* Store state in digest */
    Encode (digest, context->state, 16);

    /* Zeroize sensitive information. */
    MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform (state, block)
UINT4 state[4];
unsigned char block[64];
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode (x, block, 64);

    /* Round 1 */
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x01a82b7c); /* 3 */
FF (b, c, d, a, x[3], S14, 0xc1bdceee); /* 4 */
FF (a, b, c, d, x[4], S11, 0xf57c0faf); /* 5 */
FF (d, a, b, c, x[5], S12, 0x4787c62a); /* 6 */
FF (c, d, a, b, x[6], S13, 0xa8304613); /* 7 */
FF (b, c, d, a, x[7], S14, 0xfd469501); /* 8 */
FF (a, b, c, d, x[8], S11, 0x698098d8); /* 9 */
FF (d, a, b, c, x[9], S12, 0x8b44f7af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xffff5bb1); /* 11 */
FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* Round 2 */
GG (a, b, c, d, x[1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xd8a1e681); /* 23 */
GG (b, c, d, a, x[4], S24, 0xe7d3fbc8); /* 24 */
GG (a, b, c, d, x[9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[3], S23, 0xf4d50d87); /* 27 */

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GG (b, c, d, a, x[8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[2], S22, 0xfccefa3f8); /* 30 */
GG (c, d, a, b, x[7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
HH (a, b, c, d, x[5], S31, 0xffffa3942); /* 33 */
HH (d, a, b, c, x[8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 36 */
HH (a, b, c, d, x[1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbebfb70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xea127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0x6fe2ee0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0x6e4e0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb3d3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0x6eb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information.

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*/
MD5_memset ((POINTER)x, 0, sizeof (x));
}

/* Encodes input (UINT4) into output (unsigned char). Assumes len is
a multiple of 4.
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4) {
output[j] = (unsigned char)(input[i] & 0xff);
output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
}
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is
a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
unsigned int i, j;

for (i = 0, j = 0; j < len; i++, j += 4)
output[i] = (((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) |
(((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible.
*/

static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned int len;
{
unsigned int i;

for (i = 0; i < len; i++)

output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible. */
static void MD5_memset (output, value, len)
POINTER output;
int value;
unsigned int len;
{
    unsigned int i;

    for (i = 0; i < len; i++)
        ((char *)output)[i] = (char)value;
}

A4 mddriver.c

/* MDDRIVER.C - test driver for MD2, MD4 and MD5 */

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/* The following makes MD default to MD5 if it has not already been defined with C compiler flags. */
#endif 
#define MD MD5 
#endif

#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4

#endif
#if MD == 5
#endif

/* Length of test block, number of test blocks.
*/
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
#if MD == 5
#define MD_CTX MD5_CTX
#define MDInit MD5Init
#define MDUpdate MD5Update
#define MDFinal MD5Final
#endif

/* Main driver.
Arguments (may be any combination):

- -sstring - digests string
- -t - runs time trial
- -x - runs test script

filename - digests file
(none) - digests standard input

*/

int main (argc, argv)
{
  int i;

  if (argc > 1)
    for (i = 1; i < argc; i++)
      if (argv[i][0] == '-' && argv[i][1] == 's')
        MDString (argv[i] + 2);
      else if (strcmp (argv[i], "-t") == 0)
        MDTimeTrial ();
      else if (strcmp (argv[i], "-x") == 0)
        MDTestSuite ();
      else
        MDFile (argv[i]);
    else
      MDFilter ();

  return (0);
}

/* Digests a string and prints the result. */
static void MDString (string)
char *string;
{
  MD_CTX context;
  unsigned char digest[16];
  unsigned int len = strlen (string);

  MDInit (&context);
MDUpdate (&context, string, len);
MDFinal (digest, &context);

printf ("MD%d (%""%s\") = ", MD, string);
MDPrint (digest);
printf ("\n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte blocks. */
static void MDTimeTrial ()
{
    MD_CTX context;
time_t endTime, startTime;
    unsigned char block[TEST_BLOCK_LEN], digest[16];
    unsigned int i;

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printf
("MD%d time trial. Digesting %d %d-byte blocks ...", MD,
TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

    /* Initialize block */
    for (i = 0; i < TEST_BLOCK_LEN; i++)
        block[i] = (unsigned char)(i & 0xff);

    /* Start timer */
    time (&startTime);

    /* Digest blocks */
    MDInit (&context);
    for (i = 0; i < TEST_BLOCK_COUNT; i++)
        MDUpdate (&context, block, TEST_BLOCK_LEN);
    MDFinal (digest, &context);

    /* Stop timer */
    time (&endTime);

    printf (" done\n");
    printf ("Digest = ");
MDPrint (digest);
printf ("\nTime = %ld seconds\n", (long)(endTime-startTime));
printf ("\nSpeed = %ld bytes/second\n", 
(long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results. */
static void MDTestSuite ()
{
printf ("MD%d test suite:\n", MD);

MDString ("" );
MDString ("a");
MDString ("abc");
MDString ("message digest");
MDString ("abcdefghijklmnopqrstuvwxyz");
MDString ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
MDString ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890" );

/* Digests a file and prints the result. */

static void MDFile (filename)
char *filename;
{
FILE *file;
MD_CTX context;
int len;
unsigned char buffer[1024], digest[16];

if ((file = fopen (filename, "rb")) == NULL)
printf ("%s can't be opened\n", filename);
else {
MDInit (&context);

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 static void MDFile (filename)
char *filename;
{
FILE *file;
MD_CTX context;
int len;
unsigned char buffer[1024], digest[16];

if ((file = fopen (filename, "rb")) == NULL)
printf ("%s can't be opened\n", filename);
else {
MDInit (&context);
while (len = fread (buffer, 1, 1024, file))
    MDUpdate (&context, buffer, len);
MDFinal (digest, &context);

fclose (file);

printf ("MD%d (%s) = ", MD, filename);
MDPrint (digest);
printf ("\n");

/* Digests the standard input and prints the result. */
static void MDFilter ()
{
    MD_CTX context;
    int len;
    unsigned char buffer[16], digest[16];

    MDInit (&context);
    while (len = fread (buffer, 1, 16, stdin))
        MDUpdate (&context, buffer, len);
    MDFinal (digest, &context);

    MDPrint (digest);
    printf ("\n");
}

/* Prints a message digest in hexadecimal. */
static void MDPrint (digest)
unsigned char digest[16];
{

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unsigned int i:

for (i = 0; i < 16; i++)
    printf ("%02x", digest[i]);
}
A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") =
d174ab98d277d9f5a5611e2c9f419d9f
MD5 ("12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890") = 57edf4a22be3c955ac49da2e2107b67a

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.

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=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest, but it is probably wise to move to stronger algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS
The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)

Same as md5(), but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

Note that the base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the redundant string "==" to the result.

=head1 METHODS

The object oriented interface to C<Digest::MD5> is described in this section. After a C<Digest::MD5> object has been created, you will add data to it and finally ask for the digest in a suitable format. A single object can be used to calculate multiple digests.

The following methods are provided:

=item $md5 = Digest::MD5->new
The constructor returns a new C<Digest::MD5> object which encapsulate the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case.

=item $md5->reset

This is just an alias for $md5->new.

=item $md5->clone

This a copy of the $md5 object. It is useful when you do not want to destroy the digests state, but need an intermediate value of the digest, e.g. when calculating digests iteratively on a continuous data stream. Example:

```perl
my $md5 = Digest::MD5->new;
while (<>) {
  $md5->add($_);
  print "Line ". $md5->clone->hexdigest, "\n";
}
```

=item $md5->add($data,...)

The $data provided as argument are appended to the message we calculate the digest for. The return value is the $md5 object itself.

All these lines will have the same effect on the state of the $md5 object:

```perl
$md5->add("a"); $md5->add("b"); $md5->add("c");
$md5->add("a")->add("b")->add("c");
$md5->add("a", "b", "c");
$md5->add("abc");
```

=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the message we calculate the digest for. The return value is the $md5 object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $md5 object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $md5 object if this occurs.
In most cases you want to make sure that the $io_handle is in C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as multiples of 8, so you probably want to just use add() instead. The add_bits() method is provided for compatibility with other digest implementations. See L<Digest> for description of the arguments that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be 16 bytes long.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the C<Digest::MD5> object is automatically C<reset> and can be used to calculate another digest value. Call $md5->clone->digest if you want to calculate the digest without resetting the digest state.

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded string. The length of the returned string will be 22 and it will only contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and '/'.

The base64 encoded string returned is not padded to be a multiple of 4 bytes long. If you want interoperability with other base64 encoded md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

 Saves or restores the internal state. When called with no arguments,
returns a 3-element list: number of blocks processed, a 16-byte internal state buffer, then up to 63 bytes of unprocessed data. When passed those same arguments, restores the state. This is only useful for specialised operations.

=head1 EXAMPLES

The simplest way to use this library is to import the `md5_hex()` function (or one of its cousins):

```perl
use Digest::MD5 qw(md5_hex);
print "Digest is ", md5_hex("foobaz"), "\n";
```

The above example would print out the message:

```
Digest is 6df23dc03f9b54cc38af0fc1483df6e21
```

The same checksum can also be calculated in OO style:

```perl
use Digest::MD5;

$md5 = Digest::MD5->new;
$md5->add('foo', 'bar');
$md5->add('baz');
$digest = $md5->hexdigest;

print "Digest is $digest\n";
```

With OO style, you can break the message arbitrarily. This means that we are no longer limited to have space for the whole message in memory, i.e. we can handle messages of any size.

This is useful when calculating checksum for files:

```perl
use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode($fh);

$md5 = Digest::MD5->new;
while (<$fh>) {
    $md5->add($_);
}
close($fh);
```
print $md5->b64digest, " $filename\n";

Or we can use the addfile method for more efficient reading of the file:

use Digest::MD5;

my $filename = shift || "/etc/passwd";
open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
binmode ($fh);

print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";

Since the MD5 algorithm is only defined for strings of bytes, it can not be used on strings that contains chars with ordinal number above 255 (Unicode strings). The MD5 functions and methods will croak if you try to feed them such input data:

use Digest::MD5 qw(md5_hex);

my $str = "abc\x{300}";
print md5_hex($str), "\n"; # croaks
# Wide character in subroutine entry

What you can do is calculate the MD5 checksum of the UTF-8 representation of such strings. This is achieved by filtering the string through encode_utf8() function:

use Digest::MD5 qw(md5_hex);
use Encode qw(encode_utf8);

my $str = "abc\x{300}";
print md5_hex(encode_utf8($str)), "\n";
# 8c2d46911f3f5a326455f0ed7a8ed3b3

=head1 SEE ALSO

L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>
L<md5sum(1)>

RFC 1321

The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang and Hongbo Yu.

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The original C<MD5> interface was written by Neil Winton
(<N.Winton@axion.bt.co.uk>). The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

=cut

Found in path(s):
* /opt/cola/permits/1175308944_1624358404.66/0/perl-Digest-MD5-2.55-396.el8-1.src.rpm-cosi-expand-archive-
TawBEZ1Y/Digest-MD5-2.55.tar.gz-cosi-expand-archive-bQwGWjUa/Digest-MD5-2.55/MD5.pm

1.908 system-componentmodel-primitives

5.0.0.0

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.921 jruby-stdlib 9.2.20.1

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Found in path(s):
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/junit/jupiter/EnabledIfCondition.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/junit4/statements/RunAfterTestMethodCallbacks.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/junit4/statements/RunAfterTestClassCallbacks.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/ContextCustomizer.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/cache/ContextCacheUtils.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/web/socket/MockServerContainerContextCustomizerFactory.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/web/servlet/htmlunit/UrlRegexRequestMatcher.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/web/servlet/htmlunit/WebRequestMatcher.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/context/TestContextBootstrapper.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/web/RequestPostProcessor.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/web/RequestHandler.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-jar/springframework/test/web/RequestParamPostProcessor.java
*/
jar/org/springframework/test/web/servlet/setup/DefaultMockMvcBuilder.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/context/junit/jupiter/DisabledIfCondition.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/context/junit/jupiter/AbstractExpressionEvaluatingCondition.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/mock/http/client/MockClientHttpRequest.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/SharedHttpSessionConfigurer.java
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* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/mock/http/client/MockAsyncClientHttpRequest.java
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* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/reactive/server/EntityExchangeResult.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/client/response/DefaultResponseCreator.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/setup/SharedHttpSessionConfigurer.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/htmlunit/webdriver/WebConnectionHtmlUnitDriver.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/RequestBuilder.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/reactive/server/EntityExchangeResult.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/client/response/DefaultResponseCreator.java
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* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/htmlunit/webdriver/WebConnectionHtmlUnitDriver.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/RequestBuilder.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/reactive/server/EntityExchangeResult.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/client/response/DefaultResponseCreator.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/setup/SharedHttpSessionConfigurer.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/htmlunit/webdriver/WebConnectionHtmlUnitDriver.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/RequestBuilder.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/reactive/server/EntityExchangeResult.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/client/response/DefaultResponseCreator.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/setup/SharedHttpSessionConfigurer.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources.jar/org/springframework/test/web/servlet/htmlunit/webdriver/WebConnectionHtmlUnitDriver.java
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-
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 */

/**
 * Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
 * to a single Object, see [KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for
 * more details.
 * @since 5.0.6
 */

Found in path(s):
* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-
jar/org/springframework/test/web/reactive/server/WebTestClientExtensions.kt

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* /opt/cola/permits/1166802732_1621500029.34/0/spring-test-5-3-2-sources-
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1.933 json-cpp 1.9.5

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

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1.938 libnotify 0.7.7-5.el8

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader.
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(ags@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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The header `<boost/mp11 mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.949 russelhaering-goxmldsig 1.1.1

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1.954 zlib 1.2.11-17.el8

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1.955 jopt-simple 4.6

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Found in path(s):
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/internal/Strings.java
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* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/internal/Objects.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/HelpFormatter.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionException.java
1.956 json-editor 0.7.23 2015-09-27

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/*! JSON Editor v0.7.23 - JSON Schema -> HTML Editor
* By Jeremy Dorn - https://github.com/jdorn/json-editor/
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* 
* Date: 2015-09-27
*/

/* Simple JavaScript Inheritance
* By John Resig http://ejohn.org/
1.957 python3-pip-wheel 9.0.3-16.el8

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1.958 logstash-filter-truncate 1.0.4

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1.959 idna 2.5-2.ph2

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* /opt/cola/permits/1162254759_162565735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/python-idna.spec

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Metadata-Version: 1.1
Name: idna
Version: 2.5
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:

```python
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages
--------

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna
```

Installation
------------

To install this library, you can use pip:

```
.. code-block:: bash

    $ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash

    $ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 or later.
Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode('.
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
    .

You may use the codec encoding and decoding methods using the ``idna.codec`` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.encode('idna')
    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
    .

Conversions can be applied at a per-label basis using the ``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
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.

.. code-block:: pycon

    # 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.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

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.)

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
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1162254759_1625655735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/idna-2.5.tar.gz-cosi-expand-archive-0y03VA5z/idna-2.5/idna.egg-info/PKG-INFO
* /opt/cola/permits/1162254759_1625655735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/idna-2.5.tar.gz-cosi-expand-archive-0y03VA5z/idna-2.5/PKG-INFO

No license file was found, but licenses were detected in source scan.
import io, sys
from setuptools import setup

version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': 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 :: 2.6',
            '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',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

test_suite = 'tests'

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1162254759_162565735.46/0/python-idna-2.5-5.el8-1.src.rpm-cosi-expand-archive-xG0yOH9V/idna-2.5.tar.gz-cosi-expand-archive-0y03VA5z/idna-2.5/setup.py

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---
1.960 x-net 0.0.0-20210525063256-abc453219eb5

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1.961 openssl 1.1.1f 1ubuntu2.10

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CAST128
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DES
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SHA224, SHA256, SHA384, and SHA512
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Re-implemented and improved read-write locks;
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condition variables;
enhancements to semaphores;
enhancements to mutexes;
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similar to that implemented by V.Kliathcko;
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Borland compiler patch and makefile.
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rt/modules/javafx.media/src/main/native/gstreamer/3rd_party/glib/
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<tr>
<td>Main Mesa code</td>
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<td>MIT, generally</td>
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<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
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Ext headers       GL/glext.h             Khronos
                  GL/glxext.h           Khronos
                  GL/wglext.h           Khronos
                  KHR/khrplatform.h    Khronos

*****************************************************************************
----
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Mesa 3-D graphics library

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----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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A copy of the Oracle modified GStreamer library source code is located in the following OpenJDK git repository:

https://github.com/openjdk/jfx

You can use git to clone the repository or you can browse the source using a web browser. The root directory of the GStreamer source code is here:

rt/modules/javafx.media/src/main/native/gstreamer/gstreamer-lite/
```

```
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```
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1.974 bzip2 1.0.6 26.el8

1.974.1 Available under license:

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

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

1.975 backgrid-select-all 0.3.5

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1.976 system-reflection-emit 5.0.0.0
1.976.1 Available under license:
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1355473459_1658345640.6080403/0/powershell-package-tgz/powershell-preview-7.1.0_rc.2-1.centos.8.x86_64.rpm: binary file matches

Found in path(s):
* /bin/grep

1.977 octokit 4.22.0
1.977.1 Available under license:
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1.978 gopkg.in-ini 1.62.0
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=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

use Pod::Escapes qw(e2char);
...la la la, parsing POD, la la la...
$text = e2char($e_node->label);
unless(defined $text) {
    print "Unknown E sequence \", $e_node->label, "!";
}
...else print/interpolate $text...

=head1 DESCRIPTION

This module provides things that are useful in decoding Pod EE<lt>...E<gt> sequences. Presumably, it should be used only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But you can request any of them to be exported. Either request them individually, as with C<use Pod::Escapes qw(symbolname symbolname2...);>, or you can do C<use Pod::Escapes qw(:ALL);> to get all exportable symbols.

=head1 GOODIES

=item e2char($e_content)

Given a name or number that could appear in a
C\textlt{name_or_num} \textgt; sequence, this returns the string that it stands for. For example, C\textlt{e2char('sol')}>, C\textlt{e2char('47')}>, C\textlt{e2char('0x2F')}>, and C\textlt{e2char('057')}> all return "/", because C\textlt{EE\textlt{sol}} \textgt;>, C\textlt{EE\textlt{47}} \textgt;>, C\textlt{EE\textlt{0x2F}} \textgt;>, and C\textlt{EE\textlt{057}} \textgt;>, all mean "/". If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e\_content)

Given a name or number that could appear in a C\textlt{name_or_num} \textgt; sequence, this returns the number of the Unicode character that this stands for. For example, C\textlt{e2char('sol')}>, C\textlt{e2char('47')}>, C\textlt{e2char('0x2F')}>, and C\textlt{e2char('057')}> all return 47, because C\textlt{EE\textlt{sol}} \textgt;>, C\textlt{EE\textlt{47}} \textgt;>, C\textlt{EE\textlt{0x2F}} \textgt;>, and C\textlt{EE\textlt{057}} \textgt;>, all mean "/", whose Unicode number is 47. If the name has no known value (as with a name of "qacute") or is syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character\{I\<name>\}

Maps from names (as in C\textlt{I\<name>} \textgt;) like "eacute" or "sol" to the string that each stands for. Note that this does not include numerics (like "64" or "x981c"). Under old Perl versions (before 5.7) you get a "/" in place of characters whose Unicode value is over 255.

=item $Name2character\_number\{I\<name>\}

Maps from names (as in C\textlt{I\<name>} \textgt;) like "eacute" or "sol" to the Unicode value that each stands for. For example, C\$Name2character\_number\{'eacute'\} is 201, and C\$Name2character\_number\{'eacute'\} is 8364. You get the correct Unicode value, regardless of the version of Perl you're using -- which differs from C\%Name2character\'s behavior under pre-5.7 Perls.

Note that this hash does not include numerics (like "64" or "x981c").

=item $Latin1Code\_to\_fallback\{I\<integer>\}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps from the character code for a Latin-1 character (like 233 for lowercase e-acute) to the US-ASCII character that best approximates it (like "e"). You may find this useful if you are rendering POD in a format that you think deals well only with US-ASCII characters.
=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "xE9", lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding character (like space, for 32). Only characters 32 to 126 are defined. This is meant for use by C<e2char($x)> when it senses that it's running on a non-ASCII platform (where chr(32) doesn't get you a space -- but $Code2USASCII{32} will). It's documented here just in case you might find it useful.

=back

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value over 255 (like lambda or emdash) can't be conveyed. This module does work under such early Perl versions, but in the place of each such character, you get a "?". Latin-1 characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the same as C<chr(e2charnum($n))>, and ditto for C<$Name2character{$name}> and C<chr($Name2character_number{$name})>, because the strings are returned as native, and the numbers are returned as Unicode. However, for Perls starting with v5.8, C<e2char($n)> is the same as C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for C<$Name2character{$name}> and C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.
=head1 REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

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Portions of the data tables in this module are derived from the
entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

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Now being maintained by Neil Bowers E<lt>neilb@cpan.orgE<gt>

=cut

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
# What I used for reading the XHTML .ent files:

my(@norms, @good, @bad);
my $dir = 'c:/sgml/docbook/';
my %escapes;
foreach my $file (qw(
    xhtml-symbol.ent
    xhtml-lat1.ent
    xhtml-special.ent
)) {
    open(IN, "<$dir$file") or die "can't read-open $dir$file: $!";
    print "Reading $file...\n";
    while(<IN>) {
        if(m/<!ENTITY\s+(\S+)\s+"&#(\[^;]+);">/) {
            push @norms, $1;
            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"&(#\{[^;}]+);">/) {
            push @norms, $1;
            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"\&(#[^;]+);">/) {
            push @norms, $1;
            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"\&(#([^;}]+);">/) {
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            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"\&(#([^;}]+);">/) {
            push @norms, $1;
            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"\&(#([^;}]+);">/) {
            push @norms, $1;
            push @good, $2;
            push @bad, $3;
        } elsif(m/<!ENTITY\s+(\S+)\s+"\&(#([^;}]+);">/) {
my($name, $value) = ($1,$2);
next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';

$value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/s;
print "ILLEGAL VALUE $value" unless $value =~ m/\d+/s;
if($value > 255) {
    push @good , sprintf "   %-10s , chr(%s),\n", "$name", $value;
    push @bad  , sprintf "   %-10s , \$bad,\n", "$name", $value;
} else {
    push @norms, sprintf " %-10s , chr(%s),\n", "$name", $value;
}
elsif(m/<!ENT/) {
    print "# Skipping ", $_;
}

close(IN);

print @norms;
print "\" ( \$\] .= 5.006001 ? (\n"
print @good;
print " ) : (\n"
print @bad;
print " )\n"

__END__

#~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Found in path(s):
* /opt/cola/permits/1125845454_1611459060.71/0/perl-Pod-Escapes-1.07-395.el8-1.src.rpm-cosi-expand-archive-
ZZMDbelP/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-EFInvWMs/Pod-Escapes-1.07/lib/Pod/Escapes.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Pod-Escapes
no_index:
directory:
  - t
  - inc
requires:
  Exporter: '0'
  perl: '5.006'
  strict: '0'
  vars: '0'
  warnings: '0'
resources:
  repository: git://github.com/neilbowers/Pod-Escapes.git
  version: '1.07'

Found in path(s):
* /opt/cola/permits/1125845454_1611459060.71/0/perl-Pod-Escapes-1.07-395.el8-1.src.rpm-cosi-expand-archive-ZZMDbelP/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-EIFinvWMs/Pod-Escapes-1.07/META.yml

1.980 commons-collections 4.2
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

   Author: Julio Merino <jmmv@NetBSD.org>

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

   Author: Julio Merino <jmmv84@gmail.com>

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

   Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softabstop=2
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  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
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1.985 container-selinux 2.144.0-
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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.994 device-mapper-event-libs 1.02.169-3.el8

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Gocheck - A rich testing framework for Go

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Additional -

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File: PSReadLine

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https://github.com/Izybk/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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1.1008 otel-trace 1.0.0

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.1015 binutils 2.30-93.el8

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Public License instead of this License.
(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
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Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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for this service if you wish); that you receive source code or can get
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it in new free programs; and that you are informed that you can do
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To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.
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1.1016 libusb 1.0.23-4.el8

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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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package spec

import (   "encoding/json"

    "github.com/go-openapi/swag"
)

---
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
LicenseProps
VendorExtensible
}

type LicenseProps struct {
Name string `json:"name,omitempty"
URL string `json:"url,omitempty"
}

func (l *License) UnmarshalJSON(data []byte) error {
if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  if err != nil {
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)
  if err != nil {
    return nil, err
  }
  return swag.ConcatJSON(b1, b2), nil
}

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools
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* gosmith - https://github.com/dvyukov/gosmith

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```
package minio

import {
  "bytes"
  "context"
  "encoding/xml"
  "fmt"
  "net/http"
  "net/url"
  "github.com/minio/minio-go/v6/pkg/s3utils"
}

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// type objectLegalHold struct {
//   XMLNS string   `xml:"xmlns,attr,omitempty"`
//   XMLName xml.Name `xml:"LegalHold"
//   Status LegalHoldStatus `xml:"Status,omitempty"
// }

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
  VersionID string
  Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
  VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const {
  // LegalHoldEnabled indicates legal hold is enabled
  LegalHoldEnabled LegalHoldStatus = "ON"

  // LegalHoldDisabled indicates legal hold is disabled
```
LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status %v", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(context.Background(), "PUT", reqMetadata)
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {

    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }

    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }

    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }
// Execute GET on bucket to list objects.
resp, err := c.executeMethod(context.Background(), "GET", requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
deferr: closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{
}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
Valid bool
License *License
Warnings []string

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest(`GET`, `/v1/operator/license`)
    r.params.Set(`signed`, `1`)
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return ``, err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return ``, err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest(`DELETE`, `/v1/operator/license`)
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
}
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

return &reply, nil

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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tomb - support for clean goroutine termination in Go.

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  http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

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@end example

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 15930
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-

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PackageManagement

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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tomb - support for clean goroutine termination in Go.

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

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

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

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

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

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

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

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

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

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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1.1051 libthai 0.1.27 2.el8

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1.1052 libxcb 1.13.1 1.el8

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* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-impl-3-4-5-sources-jar/org/opensaml/messaging/handler/impl/MessageHandlerErrorStrategyAdapter.java

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 */

/** Message channel confidentiality flag. */
/**
 * Get whether message channel confidentiality is active.
 *
 * @return Returns the confidentialityActive.
 */

/**
 * Set whether message channel confidentiality is active.
 *
 * @param flag The confidentialityActive to set.
 */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-iml-3-4-5-sources-
jar/org/opensaml/messaging/handler/iml/StaticMessageChannelSecurity.java

1.1054 xorg-server 1.20.11

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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/provider/jffi/OpenFunctionMapper.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/util/ref/FinalizableReference.java
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1.1065 kmod-libs 25-16.el8

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1.1067 lua 5.2.3

1.1068 perl-experimental 0.019-2.el8

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.</xsl:text>
  </xsl:variable>

  <xsl:template>
    <xsl:variable name="isc.copyright.text" select="$isc.copyright.text"/>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:template>
</xsl:stylesheet>
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---
abstract: unknown
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamicConfig: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: unknown
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Sys-CPU
noIndex:
directory:
  - t
  - inc
requires: {}
version: 0.61

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* /opt/cola/permits/111263969_1606892037.6/0/perl-Sys-CPU-0.61-14.el8-1.src.rpm-cosi-expand-archive-wD8Nqw6V/Sys-CPU-0.61.tar.gz-cosi-expand-archive-gcogkJid/Sys-CPU-0.61/META.yml
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NAME
  Sys::CPU - Perl extension for getting CPU information. Currently only
  number of CPU's supported.

SYNOPSIS
  use Sys::CPU;

  $number_of_cpus = Sys::CPU::cpu_count();
  printf("I have %d CPU's\n",$number_of_cpus);
  print "  Speed : ",Sys::CPU::cpu_clock(),"\n";
  print "  Type  : ",Sys::CPU::cpu_type(),"\n";

DESCRIPTION
  In response to a post on perlmonks.org, a module for counting the number
  of CPU's on a system. Support has now also been added for type of CPU
  and clock speed. While much of the code is from UNIX::Processors, win32
  support has been added (but not tested).
EXPORT

None by default.

AUTHOR
MZSanford

MAINTENANCE
Marc Koderer

SEE ALSO
perl(1), sysconf(3)

CHANGES

Revision history for Perl extension Sys::CPU.

0.01 Wed Jun 27 16:43:58 2001
- original version; created by h2xs 1.20 with options -A -n Sys::CPU

0.10
- Added cpu_type and cpu_clock functions
  - Changed to better win32 suppor (untested)

0.20
- Fixed linux support

0.25
- Fixed dist tar problem

0.30
- Fixed win32 supprot to work with Windows 2000 (thanks Gary)
  - Changed interface to eliminate cpu numbers

0.35
- Fixed linux support (thanks Peter)

0.40
- Fixed HP-UX support (thanks Brett Gersekowski)

0.45
- Fixed Solaris support

0.50
- Fixed Darwin/Mac Os support (Marc Koderer)

0.51
- Fixed hidden mac os files
- Fixed bug 50933 and 25253
- Added license info (Fedora bug 585336)

- Fixed bug in s390 CPU detection (thanks Petr Pisar)

- Clean up some compiler warnings introduced in 0.53 (thanks Petr Pisar)
- Clean up other compiler warnings (thanks Petr Pisar)

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* /opt/cola/permits/1111263969_1606892037.6/0/perl-Sys-CPU-0.61-14.el8-1.src.rpm-cosi-expand-archive-wD8Nqw6V/Sys-CPU-0.61.tar.gz-cosi-expand-archive-gcogkJid/Sys-CPU-0.61/README

1.1087 lcms 2.9-2.el8
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1.1089 logstash-filter-sleep 3.0.7

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jar/org/springframework/amqp/rabbit/connection/CompositeChannelListener.java
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* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/listener/exception/ListenerExecutionFailedException.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/annotation/RabbitListenerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/listener/RabbitListenerContainerFactory.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/core/ChannelCallback.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/annotation/RabbitBootstrapConfiguration.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/core/RabbitMessagingTemplate.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/config/HeadersExchangeParser.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/config/RabbitNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/core/RabbitMessageOperations.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/connection/CompositeConnectionListener.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/config/RabbitListenerConfigUtils.java
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* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/retry/RejectAndDontRequeueRecoverer.java
* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1.jar/org/springframework/amqp/rabbit/core/ChannelAwareMessageListener.java

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* /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-jar/org/springframework/amqp/rabbit/listener/ConditionalRejectingErrorHandler.java  
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/ opt/ws_local/PERMITS_SQL/1008349194_1597810958.7/o/spring-rabbit-1-5-5-release-sources-1-
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/ opt/ws_local/PERMITS_SQL/1008349194_1597810958.7/o/spring-rabbit-1-5-5-release-sources-1-
jar/org/springframework/amqp/rabbit/listener/RabbitListenerEndpointRegistrar.java
/ opt/ws_local/PERMITS_SQL/1008349194_1597810958.7/o/spring-rabbit-1-5-5-release-sources-1-
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 * /opt/ws_local/PERMITS_SQL/1008349194_1597810958.70/spring-rabbit-1-5-5-release-sources-1-jar/org/springframework/amqp/rabbit/listener/adapter/DelegatingInvocableHandler.java
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1.1094 zlib-devel 1.2.11-13.el8

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1.1096 mariadb-connector-c-config 3.0.7-1.el8

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1.1100 json-iterator-go 1.1.12
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1.1101 libxml2 2.9.7-9.el8

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1.1102 pcre 8.42-6.el8

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.1103 spring-jdbc 5.3.2

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*/
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* Strategy interface for translating between { @link SQLException SQLExceptions }
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* hierarchy.
*
* <p>Implementations can be generic (for example, using
* { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

Found in path(s):
*/
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
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*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
public interface ParameterMapper {

  Map<String, Object> mapInputParameters(Connection con);

  default Object input(String name, String value) {
    return input(value);
  }

  default Object input(String name, int value) {
    return input((Object) value);
  }

  default Object input(String name, long value) {
    return input((Object) value);
  }

  default Object input(String name, double value) {
    return input((Object) value);
  }

  default Object input(String name, boolean value) {
    return input((Object) value);
  }

  default Object input(String name, byte[] value) {
    return input((Object) value);
  }

  default Object input(String name, Date value) {
    return input((Object) value);
  }

  default Object input(String name, ResultSet value) {
    return input((Object) value);
  }

  default Object input(String name, PreparedStatement value) {
    return input((Object) value);
  }

  default Object input(String name, CallableStatement value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, String> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Integer> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Long> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Double> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Boolean> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, byte[]> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Date> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, ResultSet> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, PreparedStatement> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, CallableStatement> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, String>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, Integer>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, Long>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, Double>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, Boolean>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, byte[]>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, Date>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, ResultSet>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, PreparedStatement>> value) {
    return input((Object) value);
  }

  default Object input(String name, Map<String, Map<String, CallableStatement>> value) {
    return input((Object) value);
  }

}

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/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/

/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never [ @code null ])
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/
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jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-
jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java

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/*
The classes in this package make JDBC easier to use and
reduce the likelihood of common errors. In particular, they:
* <ul>
  * <li>Simplify error handling, avoiding the need for try/catch/finally
  * blocks in application code.
  * <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.
* </ul>

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 * Found in path(s):
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/object/SqlOperation.java
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/object/SqlCall.java
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
 * /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
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* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
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* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
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* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1116954284_1608102360.68/0/spring-jdbc-5-3-2-sources-jar/org/springframework/jdbc/datasour...
jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
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ar/jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt

1.1104 six 1.11.0
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1.1106 lang-mustache-client 7.17.0

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from typing import (Any, Collection, Dict, Mapping, MutableMapping, Optional, Tuple, Union)

from .utils import NamespacedClient

class LicenseClient(NamespacedClient):

error_trace: Optional[bool] = ...,  
format: Optional[str] = ...,  
filter_path: Optional[Union[str, Collection[str]]] = ...,  
request_timeout: Optional[Union[int, float]] = ...,  
ignore: Optional[Union[int, Collection[int]]] = ...,  
opaque_id: Optional[str] = ...,  
http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
params: Optional[MutableMapping[str, Any]] = ...,  
headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

def get( 
    self,  
    *,  
    accept.enterprise: Optional[bool] = ...,  
    local: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

def get_basic_status( 
    self,  
    *,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

def get_trial_status( 
    self,  
    *,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...
pretty: Optional[bool] = ...,  
human: Optional[bool] = ...,  
error_trace: Optional[bool] = ...,  
format: Optional[str] = ...,  
filter_path: Optional[Union[str, Collection[str]]] = ...,  
request_timeout: Optional[Union[int, float]] = ...,  
ignore: Optional[Union[int, Collection[int]]] = ...,  
opaque_id: Optional[str] = ...,  
http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
params: Optional[MutableMapping[str, Any]] = ...,  
headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

def post(
    self,  
    *,  
    body: Optional[Mapping[str, Any]] = ...,  
    acknowledge: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

def post_start_basic(
    self,  
    *,  
    acknowledge: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...
def post_start_trial(
    self,
    *,
    acknowledge: Optional[bool] = ...,
    type: Optional[Any] = ...,
    pretty: Optional[bool] = ...,
    human: Optional[bool] = ...,
    error_trace: Optional[bool] = ...,
    format: Optional[str] = ...,
    filter_path: Optional[Union[str, Collection[str]]] = ...,
    request_timeout: Optional[Union[int, float]] = ...,
    ignore: Optional[Union[int, Collection[int]]] = ...,
    opaque_id: Optional[str] = ...,
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,
    params: Optional[MutableMapping[str, Any]] = ...,
    headers: Optional[MutableMapping[str, str]] = ...,
) -> Dict[str, Any]: ...

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from typing import (  
    Any,
    Collection,
    Dict,
    Mapping,
    MutableMapping,
    Optional,
    Tuple,
    Union,
)  

from .utils import NamespacedClient
class LicenseClient(NamespaceClient):
    async def delete(
        self,
        *,
        pretty: Optional[bool] = ...,  
        human: Optional[bool] = ...,  
        error_trace: Optional[bool] = ...,  
        format: Optional[str] = ...,  
        filter_path: Optional[Union[str, Collection[str]]] = ...,  
        request_timeout: Optional[Union[int, float]] = ...,  
        ignore: Optional[Union[int, Collection[int]]] = ...,  
        opaque_id: Optional[str] = ...,  
        http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
        api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
        params: Optional[MutableMapping[str, Any]] = ...,  
        headers: Optional[MutableMapping[str, str]] = ...,  
    ) -> Dict[str, Any]: ...

async def get(
    self,
    *,
    accept_enterprise: Optional[bool] = ...,  
    local: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

async def get_basic_status(
    self,
    *,
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
) -> Dict[str, Any]: ...
async def get_trial_status(
    self,
    *,
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

async def post(
    self,
    *,
    body: Optional[Mapping[str, Any]] = ...,  
    acknowledge: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

async def post_start_basic(
    self,
    *,
    acknowledge: Optional[bool] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
) -> Dict[str, Any]: ...
opaque_id: Optional[str] = ...,  
http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
params: Optional[MutableMapping[str, Any]] = ...,  
headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

async def post_start_trial(  
    self,  
    *,  
    acknowledge: Optional[bool] = ...,  
    type: Optional[Any] = ...,  
    pretty: Optional[bool] = ...,  
    human: Optional[bool] = ...,  
    error_trace: Optional[bool] = ...,  
    format: Optional[str] = ...,  
    filter_path: Optional[Union[str, Collection[str]]] = ...,  
    request_timeout: Optional[Union[int, float]] = ...,  
    ignore: Optional[Union[int, Collection[int]]] = ...,  
    opaque_id: Optional[str] = ...,  
    http_auth: Optional[Union[str, Tuple[str, str]]] = ...,  
    api_key: Optional[Union[str, Tuple[str, str]]] = ...,  
    params: Optional[MutableMapping[str, Any]] = ...,  
    headers: Optional[MutableMapping[str, str]] = ...,  
) -> Dict[str, Any]: ...

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1.1110 spdylay 1.4.0
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1.1111 libsov 0.7.16-2.el8

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1.1112 log4j-api 2.17.1
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SUMMARY: Configuration #defines for STL EH test suite

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* /*
// version.

Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_stream_iterator.h
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_slist.c
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_function.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_iterator.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_iterator_old.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_iterator_base.h
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/test_bit_vector.cpp

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-test/eh/test_bit_vector.cpp
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/SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All
comparisons on SortClass may fail. Also records its own address for
the sake of testing the stability of sorting algorithms.

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-test/eh/SortClass.h
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random_number.cpp

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/eh/random_number.cpp
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/hash_map
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_fstream.c
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_rope.c
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_stdexcept.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/hash_set
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_stdexcept_base.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_stdexcept_base.c
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/char_traits.h
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_auto_ptr.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_threads.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_slock_free_slist.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_string_hash.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_string.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/memory
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_string_io.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/string
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/eh/test_string.cpp

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TestClass.h

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SUMMARY: TestClass simulates a class that uses resources. It is designed to cause exceptions when it is constructed or copied.

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/_string_workaround.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/pointers/_deque.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/_iostream_string.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/_unordered_set.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/_unordered_map.h
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/* boost limits_test.cpp test your <limits> file for important
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_numeric.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/numeric
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/vector

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* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/darwin/targetsys.mak
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* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/lib/top.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/extern.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/vc6.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/hp-ux/sys.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/lib/icc.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/app/icc.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/top.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/lib/CC.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/icc.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/lib/dmc.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/lib/rules-install-a.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/bcc.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/unix/rules-install-so.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/freebsd/sys.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/unix/rules-so.mak
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1.zip/stlport-5.2.1/build/Makefiles/gmake/unix/rules-so.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/sunos/sys.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/Makefile
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/targetdirs.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/unix/lib.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/CC.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/app/rules.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/lib/gcc.mak
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/build/Makefiles/gmake/app/gcc.mak

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/src/numpunct.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/complex.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/src/ostream.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/_complex.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/ostream
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex_trig.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex_io.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex_io.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/complex.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/_num_put.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/iomanip.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios_put.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios_get.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios_put.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios_get.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ioscpp.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport/ios.cpp
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Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1.zip/stlport-5.2.1/test/unit/cppunit/cppunit_timer.h
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/***********************************************************************************
 test_hash_set.cpp
***********************************************************************************/

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/***********************************************************************************
 test_assign_op.h
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SUMMARY: Test functor template for assignment operators.
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Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/unit/cppunit/cppunit_proxy.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/unit/cppunit/file_reporter.h
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* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_exception.h
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-zip/stlport-5.2.1/stlport/exception
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/opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-zip/stlport-5.2.1/test/eh/mwerks_console_OS_X.c: binary file matches

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Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stl/config/features.h
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version.

Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/etc/ChangeLog-5.1
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/test_deque.cpp

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_TestCase.cpp

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/*
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/test/eh/TestClass.cpp
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5.2.1/stlport/stl/boost_type_traits.h
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* */

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/config/_system.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/config/stl_mycomp.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/config/_cray.h
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/std/_limits.c
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* */

Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1.zip/stlport-5.2.1/stlport/unordered_set
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1.zip/stlport-5.2.1/stlport/unordered_map
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 /***************************************************************************
 * Tests.h
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 SUMMARY: Declarations of all of the tests in the exception test suite.

 /***************************************************************************

 Found in path(s):
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*
* Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
* insert_equal with valid hint -- efficiency is improved all around, and it is
* should now be standard conforming for complexity on insert point immediately
* after hint (amortized constant time).
* */

Found in path(s):

* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_tree.c
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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/type_manips.h
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 */

/* Default values based on C++ Standard 22.2.1.
 * Under Windows the localisation implementation take care of mapping its
* mask values to those internal values. For other platforms without real
* localization support we are free to use the most suitable values.*/

Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-1.zip/stlport-5.2.1/stlport/stl/c_locale.h
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Found in path(s):
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TestController.h

SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and
functionality relating to the test suite. Probably should be broken
into smaller pieces.

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-browser.StrictTransportSecurity=always

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/opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-0/stlport-5.2.1/stlport/list
/opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-0/stlport-5.2.1/stlport/std/_algo.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/map
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_tree.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_bvector.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/thread_alloc
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_thread_alloc.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_raw_storage_iter.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_list.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_stack.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_tree.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_vector.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_hash_map.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_map.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/src/dll_main.cpp
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1/zip/stlport-5.2.1/stlport/std/_deque.h

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/debug/_debug.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/debug/_iterator.h

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_range_errors.h

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/test_rope.cpp

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STLport README for Microsoft Visual C++ compilers.

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

Introduction

This document describes how STLport can be compiled and used with Microsoft
Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or question visit STLport mailing lists
http://stlport.sourceforge.net/Maillists.shtml or forums
https://sourceforge.net/forum/?group_id=146814
Prerequisites

To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher version.

Configuring STLport

In a console window go to the STLport build/lib folder. Run

```
configure --help
```

This command will present you the different available build options. Just follow the instructions to set STLport configuration according your needs. The only mandatory configuration is to declare what is the compiler you are going to use, for MSVC 6 it is:

```
configure -c msvc6
```

Building STLport

This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.

2. Go to MSVC++ Bin directory with a default MSVC6 install it is
   ```
   cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"
   ```

3. Run the vcvars32.bat script. This sets the environment variables required to have the MSVC++ compiler run during the build process. The most important one is the PATH variable so that you can call the cl.exe command which is the MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths to access command-line tools' during Microsoft Visual Studio installation procedure.]

4. Go to the STLport build/lib folder:
   ```
   cd C:\STLport\build\lib
   ```

5. Run the following command:
   ```
   nmake /fmsvc.mak install
   ```

   nmake is the make utility from Microsoft. /f is an nmake option telling it which make file script to use. You have of course to grant the
closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within the STLport lib folder. For a description of the generated libraries check the README file within the src folder.

=============
Testing STLport
=============

You can use the unit tests to verify STLport behaves correctly. Change into STLports 'build/test/unit' folder and type:

nmake /fmsvc.mak install

Once the unit test is built you just need to run it. They can be found within the STLport bin folder.

=============
Using STLport
=============

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories' for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder. Make sure it is the first directory listed there. Add STLport's 'lib' folder for the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc projects:

If you don't want to use the iostreams part of the library, you can specify the define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the library.

STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define _STLP_VERBOSE_AUTO_LINK. When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

stlport[d|stld]_x,_static,_statix.<STLport-Version>.lib

d : debug build
std: debug build with _STLP_DEBUG (STL safe) mode
_x: Build of STLport as a dll but statically link to the native runtime.
_static : build of a static library
_statix : build of a static library link dynamically to the native runtime.

Examples:
When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

==============
Known issues
==============

1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function like the following message:

C:\Program Files\Microsoft SDK\Include\\winbase.h(1392) : error C2733: second C linkage of overloaded function 'InterlockedIncrement' not allowed
C:\Program Files\Microsoft SDK\Include\\winbase.h(1390) : see declaration of 'InterlockedIncrement'

It means that you are using the new Microsoft platform SDK. There is no way to known it from STLport code so you have to signal it in the stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers while building or using STLport you might be using the compiler coming with a platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in stlport/stl/config/user_config.h. If it still do not find native headers you will perhaps need to change native headers relative path used by STLport. In this case use _STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both the global namespace and symbols imported by a using-directive or a using-declaration - it will report an ambiguous call to an overloaded function (error C2668). Example:
void function();
namespace ns {
  void function();
  // or:
  // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
  function();
}

Since we anticipate that using-declarations or even using-directives are common use, STLport by default doesn't import or wrap functions that exist in both the global namespace and namespace std, in particular those are functions with C origin like fopen() or abs(). Also, it defines additional overloads for functions like abs() (overloaded for int, long, float, double, long double) in the global namespace.

In order to make STLport include them in the std namespace, you can define the _STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicitly scope all your functions calls like std::abs() though - otherwise you only get the global abs(int) from the C library.

Found in path(s):
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/doc/README.msvc
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 test_push_back.h

 Interface for the test_push_back class

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    test_list.cpp

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*****************************************************************************/

    README file for STLport 5.0
    *****************************************************************************/

This directory contains the STLport-5.0 release.

What's inside:

README       - this file
INSTALL      - installation instructions
bin          - installation directory for STLport unit tests;
               it may contain more subdirs, if you use
crosscompilation
build/lib    - build directory for STLport library (if you use
               STLport iostreams and/or locale only)
build/test/unit - build directory for regression (unit) tests
build/test/eh  - build directory for exception handling tests
stlport       - main STLport include directory
src           - source for iostreams implementation and other parts
               that aren't pure template code
lib           - installation directory for STLport library (if you
use STLport iostreams and/or locale only);
it may contain more subdirs, if you use
crosscompilation
test/unit - unit (regression) tests
test/eh - exception handling test using STLport iostreams
etc - miscellaneous files (ChangeLog, TODO, scripts, etc.)

GETTING STLPORT

To download the latest version of STLport, please be sure to visit
https://sourceforge.net/project/showfiles.php?group_id=146814

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* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-zip/stlport-5.2.1/stlport/limits
* /opt/cola/permits/1364759516_1658834941.43093590/stlport-5-2-1-zip/stlport-5.2.1/stlport/stl/_limits.h
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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

    make -f gcc.mak depend
    make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:

    make -f CC.mak depend
    make -f CC.mak install

Microsoft NMAKE (MS Windows), with VC6:

    nmake /fmsvc.mak install

Make system goals.

- all source files declared in one place (for all platforms and
  compilers); the same is for base library (application) name and
  version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-Compilation

Make targets.

release-static

build STLport as static library
dbg-static

build STLport as static library (with debug information)

stldbg-static

build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

build STLport as dynamic (shared) library

dbg-shared

STLport as dynamic (shared) library (with debug information)

stldbg-shared

build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)

cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created during compilation process); this target absent for MS NMAKE (due to pure scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into 'STLport/lib' and 'STLport/bin' (./lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and install-*-* on Windows.

clean
remove all intermediate files

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* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport-5.2.1/stlport/bitset
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport/stl/_bitset.h
* /opt/cola/permits/1364759516_1658834941.4309359/0/stlport-5-2-1-zip/stlport/stl/_bitset.c
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Main.cpp

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ThrowCompare.h

Interface for the ThrowCompare class

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 * @author Marek Potociar (marek.potociar at oracle.com)
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  jar/org/glassfish/jersey/message/internal/DocumentProvider.java
* /opt/cola/permits/100969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/internal/AbstractJaxbProvider.java
* /opt/cola/permits/100969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/internal/HeaderReaderImpl.java
* /opt/cola/permits/100969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/internal/HeaderReaderImpl.java
* /opt/cola/permits/100969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/internal/HeaderReaderImpl.java
* /opt/cola/permits/100969966_1654022919.547043/0/jersey-common-2-12-sources-
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/spi/ContentEncoder.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/model/ContractProvider.java
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  jar/org/glassfish/jersey/spi/ContextResolvers.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/internal/util/collection/ImmutableMultivaluedMap.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/util/PropertiesHelper.java
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  jar/org/glassfish/jersey/message/internal/DataSourceProvider.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
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jar/org/glassfish/jersey/internal/inject/CustomAnnotationImpl.java
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jar/org/glassfish/jersey/internal/util/collection/UnsafeValue.java

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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# Date Range Picker for Bootstrap

![Improvely.com](http://i.imgur.com/LbAMf3D.png)

This date range picker component for Bootstrap creates a dropdown menu from which a user can select a range of dates. I created it while building the UI for [Improvely](http://www.improvely.com), which needed a way to select date ranges for reports.

Features include limiting the selectable date range, localizable strings and date formats, a single date picker mode, optional time picker (for e.g. making appointments or reservations), and styles that match the default Bootstrap 3 theme.

## [Documentation and Live Usage Examples](http://www.daterangepicker.com)

## [See It In a Live Application](https://awio.iljmp.com/5/drpdemogh)

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1.jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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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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(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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1.1128 d-bus 1.12.8-12.el8

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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd              usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify              usr/sbin/sm-notify
infra/systemd/nfs-statd.service                                  usr/lib/systemd/system/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat                usr/sbin/nfsstat

contrib/initscripts/binos/etc/NFS_VER/nfs-utils.conf  etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-common
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/dmesg      usr/bin/dmesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill       usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount      usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount     usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/agetty     usr/bin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/blockdev  usr/bin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cfdisk     usr/bin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ctrlaltdel  usr/bin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/fdisk      usr/bin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/fsck       usr/bin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hwclock    usr/bin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mkswap     usr/bin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/pivot_root  usr/bin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/sfdisk     usr/bin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/swapoff    usr/bin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/swapon     usr/bin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch       usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal        usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt       usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col        usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colt     usr/bin/colt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colrm      usr/bin/colrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/column   usr/bin/column
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock      usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt    usr/bin/getopt
Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/util-linux
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc  usr/bin/ipcalc

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/ipcalc
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#
# This file contains all needed files related to nfs server daemon.
# #
(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible when NFSV4 support is configured in kernel.
# When nfs4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 server.
# so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-$(PLATFORM_SYSROOT)/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv3/nfs-utils
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usr/lib/systemd/system/dev-hugepages.mount
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service
usr/lib/systemd/system/emergency.service
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target
usr/lib/systemd/system/local-fs.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network-online.target
usr/lib/systemd/system/network.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/slices.target
usr/lib/systemd/system/slices.target
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udevd-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udevd-control.socket
/usr/lib/systemd/system/systemd-udevd-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udevd-kernel.socket
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/$[SYSROOT]$/[ARCH]$([SDK])/usr/lib/systemd/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/dev-mqueue.mount
/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-config.mount
/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sysinit.target.wants/sys-kernel-debug.mount
/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
/usr/lib/systemd/system/systemd-journald.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
/usr/lib/systemd/system/systemd-modules-load.service
usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup.service
/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udev-trigger.service
/usr/lib/systemd/system/systemd-udevd.service
usr/lib/systemd/system/sysinit.target.wants/systemd-udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-halt.service
usr/lib/systemd/system/sysinit.target.wants/systemd-halt.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journal-flush.service
usr/lib/systemd/system/sysinit.target.wants/systemd-journal-flush.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-dev-log.socket
usr/lib/systemd/system/sysinit.target.wants/systemd-journald-dev-log.socket
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-fsck@.service
usr/lib/systemd/system/sysinit.target.wants/systemd-fsck@.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sysinit.target.wants/systemd-journald.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-kexec.service
usr/lib/systemd/system/sysinit.target.wants/systemd-kexec.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-modules-load.service
usr/lib/systemd/system/sysinit.target.wants/systemd-modules-load.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-poweroff.service
usr/lib/systemd/system/sysinit.target.wants/systemd-poweroff.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-reboot.service
usr/lib/systemd/system/sysinit.target.wants/systemd-reboot.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/sysinit.target.wants/systemd-sysctl.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/sysinit.target.wants/systemd-tmpfiles-setup-dev.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup.service
usr/lib/systemd/system/systemd-tmpfiles-setup.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev-settle.service
usr/lib/systemd/system/systemd-udev-settle.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udevd-control.socket
usr/lib/systemd/system/systemd-udevd-control.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udevd-kernel.socket
usr/lib/systemd/system/systemd-udevd-kernel.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd
usr/lib/systemd/systemd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/50-udev-default.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/udev/rules.d/99-systemd.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-analyze
usr/bin/systemd-analyze
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/machine.slice
usr/lib/systemd/system/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/systemd-journald.service.d/visible.conf
infra/systemd/sysctl/inotify-user-instances.conf
etc/sysctl.d/inotify-user-instances.conf

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/systemd-common
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linkfarm/$SYSROOT/$ARCH/$SDK/usr/bin/staprun    usr/bin/staprun
linkfarm/$SYSROOT/$ARCH/$SDK/usr/libexec/systemtap/stapio    usr/libexec/systemtap/stapio

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/systemtap
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(include audit)
(include bash)
(include binutils)
(include bridge-utils)
(include busybox)
(include bzip2)
(include coreutils)
(include cpio)
(include dbus)
(include diffutils)
(include dosfstools)
(include e2fsprogs)
(include ethtool)
(include file)
(include filesystem)
(include findutils)
(include gawk)
(include glibc)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include lsof)
(include modules)
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rcpbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemd)
(include sysvinit)
(include tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all-common
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#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ping       usr/bin/ping
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath    usr/bin/tracepath
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/in.tftpd-hpa usr/bin/tftpd

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/iputils
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(include all-common)

(include systemd)
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#files related to nfs-statd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/rpc.statd              usr/sbin/rpc.statd
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/sm-notify              usr/sbin/sm-notify
infra/systemd/nfs-statd.service                       usr/lib/systemd/system/nfs-statd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/nfsstat                usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/rpc.idmapd             usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount            usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/{LIB}/libnfsidmap/nsswitch.so usr/lib/libnfsidmap/nsswitch.so
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/etc/idmapd.conf          etc/idmapd.conf
infra/systemd/nfs-idmapd.service                      usr/lib/systemd/system/nfs-idmapd.service

contrib/initscripts/binos/etc/$[NFS_VER]/nfs-utils.conf etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all
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# May 2018, Victor Kamensky
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linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/auditd               usr/sbin/auditd
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/audispd              usr/sbin/audispd
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/autrace              usr/sbin/autrace
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/aureport             usr/sbin/aureport
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/auditctl             usr/sbin/auditctl
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/ausearch             usr/sbin/ausearch

contrib/initscripts/binos/etc/audit/auditd.conf                etc/audit/auditd.conf
contrib/initscripts/binos/etc/audisp/audispd.conf              etc/audisp/audispd.conf
contrib/initscripts/binos/etc/audit/audit.rules               etc/audit/audit.rules
contrib/initscripts/binos/etc/audisp/plugins.d/syslog.conf     etc/audisp/plugins.d/syslog.conf
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/etc/default/auditd          etc/default/auditd
Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/audit
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(include systemd-common)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usrlib/systemd/system/systemd-timedated.service)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udevd.service
usrlib/systemd/system/systemd-udevd.service)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usrlib/systemd/system/tmp.mount)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs
usrlib/systemd/system/exportfs)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd
usrlib/systemd/system/rpc.mount)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd
usrlib/systemd/system/rpc.nfsd)

(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo
usrlib/systemd/system/rpcinfo)

(include nfs-common)
# The following kernel modules are needed when NFSV4 support is configured
# in kernel.
# nfssd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

- ${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko

${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
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# This file is to store extra files needed to support NFSV4 client.
#
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs   usr/sbin/mount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs  usr/sbin/umount.nfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mount.nfs4  usr/sbin/mount.nfs4
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/umount.nfs4 usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/${NFS_VER}/nfsmount.conf  etc/nfsmount.conf

${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko
usr/lib/modules/${KERNEL_VER}/kernel/fs/nfs/nfsv4.ko

(include nfs-common)

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
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(include systemd-common)

infra/systemd/switchroot/sysinit.target          usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service  usr/lib/systemd/system/systemd-
journald.service
infra/systemd/switchroot/systemd-timedated.service  usr/lib/systemd/system/systemd-
timedated.service
infra/systemd/switchroot/systemd-udevd.service          usr/lib/systemd/system/systemd-
udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/systemd-swrt
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(include all-common)

(include systemd-swrt)

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all-swrt

1.1129 logstash-filter-xml 4.1.3

1.1129.1 Available under license :

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* Jordan Sissel (jordansissel)  
* Pete Fritchman (fetep)  
* Philippe Weber (wiibaa)  
* Pier-Hugues Pellerin (ph)  
* Richard Pijnenburg (electrical)  
* Suyog Rao (suyograo)  
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1.1130 Copy-Jdk-configs 3.7-1.el8

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1.1131 Accessors-Smart 2.4.2

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Manifest-Version: 1.0
Bnd-LastModified: 1617553114265
Build-Jdk: 11.0.9.1
Built-By: uriel
Bundle-Description: Java reflect give poor performance on getter setter constructor calls, accessors-smart use ASM to speed up those calls.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.2
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4"
Found in path(s):
* /opt/cola/permits/1185889281_1627998250.94/0/accessors-smart-2-4-2-jar/META-INF/MANIFEST.MF
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1.1132 python-dateutil 2.6.1-6.el8

1.1132.1 Available under license:
dateutil - Extensions to the standard Python datetime module.

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1.1134 linux-firmware 20200619-101.git3890db36.el8_3
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1.1146 zlib 1.2.5

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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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*/

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1.1148 json 2.5.1
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blue3a
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generic_type, gn, gn
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hard_cursor, chts, HC
has-meta_key, km, km
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lpi_changes_res, lpix, YG
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memory_below, db, db
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delete_character, dch1, dc
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flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
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init_2string, is2, is
init_3string, is3, i3
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init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
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key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcr, @6
key_ctab, kctab, ktt
key_dc, kdc, kD
key_dl, kdl1, kL
key_down, kcd1, kd
key_eic, krmr, kM
key_end, kend, @7
key_enter, kct, @8
key_eol, kel, kE
key_eos, ked, kS
key_exit, kext, @9
key_f0, kfo, k0
key_f1, kf1, k1
key_f10, kf10, k10
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgpb, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
text_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colormm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispC, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode, smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, eloilm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

Found in path(s):
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/capabilities.txt
1.1152 snappy 1.1.7-5.el8

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 */

Found in path(s):
* /opt/cola/permits/1111482819_1615437013.3/0/axis-jaxrpc-sources-jar-zip/axis-jaxrpc-1-2-sources-jar/java/rpc/handler/HandlerRegistry.java
1.1154 urfave-cli 2.3.0

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1.1155 p11-kit-trust 0.23.14-5.el8_0

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1.1156 selinux-policy-targeted 3.14.3-41.el8

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1.1157 ietf-yang-types 2010.09.24.7

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module ietf-yang-types {

namespace "urn:ietf:params:xml:ns:yang:ietf-yang-types";
prefix "yang";

organization
"IETF NETMOD (NETCONF Data Modeling Language) Working Group";

contact
"WG Web:  <http://tools.ietf.org/wg/netmod/>";
WG List:  <mailto:netmod@ietf.org>

WG Chair: David Partain
     <mailto:david.partain@ericsson.com>

WG Chair: David Kessens
     <mailto:david.kessens@nsn.com>

Editor: Juergen Schoenwaelder
     <mailto:j.schoenwaelder@jacobs-university.de>";

description
"This module contains a collection of generally useful derived
typedef counter32 {
  type uint32;
  description
    "The counter32 type represents a non-negative integer
     that monotonically increases until it reaches a
     maximum value of 2^32-1 (4294967295 decimal), when it
     wraps around and starts increasing again from zero.

     Counters have no defined 'initial' value, and thus, a
     single value of a counter has (in general) no information
     content. Discontinuities in the monotonically increasing
     value normally occur at re-initialization of the
     management system, and at other times as specified in the
     description of a schema node using this type. If such
     other times can occur, for example, the creation of
     a schema node of type counter32 at times other than
     re-initialization, then a corresponding schema node
     should be defined, with an appropriate type, to indicate
     the last discontinuity.

     The counter32 type should not be used for configuration
     schema nodes. A default statement SHOULD NOT be used in
     combination with the type counter32.

     In the value set and its semantics, this type is equivalent
typedef zero-based-counter32 {
    type yang:counter32;
    default "0";
    description
    "The zero-based-counter32 type represents a counter32
    that has the defined 'initial' value zero.

    A schema node of this type will be set to zero (0) on creation
    and will thereafter increase monotonically until it reaches
    a maximum value of 2^32-1 (4294967295 decimal), when it
    wraps around and starts increasing again from zero.

    Provided that an application discovers a new schema node
    of this type within the minimum time to wrap, it can use the
    'initial' value as a delta. It is important for a management
    station to be aware of this minimum time and the actual time
    between polls, and to discard data if the actual time is too
    long or there is no defined minimum time.

    In the value set and its semantics, this type is equivalent
    to the ZeroBasedCounter32 textual convention of the SMIv2.";
    reference
    "RFC 4502: Remote Network Monitoring Management Information
     Base Version 2";
} 

typedef counter64 {
    type uint64;
    description
    "The counter64 type represents a non-negative integer
    that monotonically increases until it reaches a
    maximum value of 2^64-1 (18446744073709551615 decimal),
    when it wraps around and starts increasing again from zero.

    Counters have no defined 'initial' value, and thus, a
    single value of a counter has (in general) no information
    content. Discontinuities in the monotonically increasing
    value normally occur at re-initialization of the
    management system, and at other times as specified in the
    description of a schema node using this type. If such
    other times can occur, for example, the creation of
    a schema node of type counter64 at times other than
    re-initialization, then a corresponding schema node
should be defined, with an appropriate type, to indicate the last discontinuity.

The counter64 type should not be used for configuration schema nodes. A default statement SHOULD NOT be used in combination with the type counter64.

In the value set and its semantics, this type is equivalent to the Counter64 type of the SMIv2.

reference
"RFC 2578: Structure of Management Information Version 2 (SMIv2)"
}

typedef zero-based-counter64 {
  type yang:counter64;
  default "0";
  description
  "The zero-based-counter64 type represents a counter64 that has the defined 'initial' value zero.

  A schema node of this type will be set to zero (0) on creation and will thereafter increase monotonically until it reaches a maximum value of 2^64-1 (18446744073709551615 decimal), when it wraps around and starts increasing again from zero.

  Provided that an application discovers a new schema node of this type within the minimum time to wrap, it can use the 'initial' value as a delta. It is important for a management station to be aware of this minimum time and the actual time between polls, and to discard data if the actual time is too long or there is no defined minimum time.

  In the value set and its semantics, this type is equivalent to the ZeroBasedCounter64 textual convention of the SMIv2.

  reference
  "RFC 2856: Textual Conventions for Additional High Capacity Data Types"
}

typedef gauge32 {
  type uint32;
  description
  "The gauge32 type represents a non-negative integer, which may increase or decrease, but shall never exceed a maximum value, nor fall below a minimum value. The maximum value cannot be greater than 2^32-1 (4294967295 decimal), and the minimum value cannot be smaller than 0. The value of a gauge32 has its maximum value whenever the information
being modeled is greater than or equal to its maximum value, and has its minimum value whenever the information being modeled is smaller than or equal to its minimum value. If the information being modeled subsequently decreases below (increases above) the maximum (minimum) value, the gauge32 also decreases (increases).

In the value set and its semantics, this type is equivalent to the Gauge32 type of the SMIv2.

reference
"RFC 2578: Structure of Management Information Version 2 (SMIv2)";

} typedef gauge64 {
  type uint64;
  description
  "The gauge64 type represents a non-negative integer, which may increase or decrease, but shall never exceed a maximum value, nor fall below a minimum value. The maximum value cannot be greater than 2^64-1 (18446744073709551615), and the minimum value cannot be smaller than 0. The value of a gauge64 has its maximum value whenever the information being modeled is greater than or equal to its maximum value, and has its minimum value whenever the information being modeled is smaller than or equal to its minimum value. If the information being modeled subsequently decreases below (increases above) the maximum (minimum) value, the gauge64 also decreases (increases).

In the value set and its semantics, this type is equivalent to the CounterBasedGauge64 SMIv2 textual convention defined in RFC 2856";

reference
"RFC 2856: Textual Conventions for Additional High Capacity Data Types";

}

/*** collection of identifier related types ***/ typedef object-identifier {
  type string {
    pattern '((\[0-1]\.[1-3]?:[0-9])|(2\.[0-9]*))' + '(\.[0-9]*d*'))*; 
  }
  description
  "The object-identifier type represents administratively assigned names in a registration-hierarchical-name tree.
Values of this type are denoted as a sequence of numerical non-negative sub-identifier values. Each sub-identifier value MUST NOT exceed $2^{32}-1$ (4294967295). Sub-identifiers are separated by single dots and without any intermediate whitespace.

The ASN.1 standard restricts the value space of the first sub-identifier to 0, 1, or 2. Furthermore, the value space of the second sub-identifier is restricted to the range 0 to 39 if the first sub-identifier is 0 or 1. Finally, the ASN.1 standard requires that an object identifier has always at least two sub-identifier. The pattern captures these restrictions.

Although the number of sub-identifiers is not limited, module designers should realize that there may be implementations that stick with the SMIv2 limit of 128 sub-identifiers.

This type is a superset of the SMIv2 OBJECT IDENTIFIER type since it is not restricted to 128 sub-identifiers. Hence, this type SHOULD NOT be used to represent the SMIv2 OBJECT IDENTIFIER type, the object-identifier-128 type SHOULD be used instead."

reference
"ISO9834-1: Information technology -- Open Systems Interconnection -- Procedures for the operation of OSI Registration Authorities: General procedures and top arcs of the ASN.1 Object Identifier tree";

typedef object-identifier-128 {
  type object-identifier {
    pattern '\d*(\d*{1,127})';
  }
  description
  "This type represents object-identifiers restricted to 128 sub-identifiers.

  In the value set and its semantics, this type is equivalent to the OBJECT IDENTIFIER type of the SMIv2.";
  reference
  "RFC 2578: Structure of Management Information Version 2 (SMIv2)";
}
typedef date-and-time {
    type string {
        pattern 'd{4}-d{2}-d{2}Td{2}:d{2}:d{2}(\.d+)?'
        + '(Z|\+[\-]d{2}:d{2})';
    }
}

description
"The date-and-time type is a profile of the ISO 8601 standard for representation of dates and times using the Gregorian calendar. The profile is defined by the date-time production in Section 5.6 of RFC 3339.

The date-and-time type is compatible with the dateTime XML schema type with the following notable exceptions:

(a) The date-and-time type does not allow negative years.

(b) The date-and-time time-offset -00:00 indicates an unknown time zone (see RFC 3339) while -00:00 and +00:00 and Z all represent the same time zone in dateTime.

(c) The canonical format (see below) of data-and-time values differs from the canonical format used by the dateTime XML schema type, which requires all times to be in UTC using the time-offset 'Z'.

This type is not equivalent to the DateAndTime textual convention of the SMIV2 since RFC 3339 uses a different separator between full-date and full-time and provides higher resolution of time-secfrac.

The canonical format for date-and-time values with a known time zone uses a numeric time zone offset that is calculated using the device's configured known offset to UTC time. A change of the device's offset to UTC time will cause date-and-time values to change accordingly. Such changes might happen periodically in case a server follows automatically daylight saving time (DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00.';";

reference
"RFC 3339: Date and Time on the Internet: Timestamps
RFC 2579: Textual Conventions for SMIV2
}
typedef timeticks {
typedef timeticks {
  type uint32;
  description
  "The timeticks type represents a non-negative integer that
  represents the time, modulo 2^32 (4294967296 decimal), in
  hundredths of a second between two epochs. When a schema
  node is defined that uses this type, the description of
  the schema node identifies both of the reference epochs.

  In the value set and its semantics, this type is equivalent
to the TimeTicks type of the SMIv2.";
  reference
  "RFC 2578: Structure of Management Information Version 2 (SMIv2)";
}

typedef timestamp {
  type yang:timeticks;
  description
  "The timestamp type represents the value of an associated
  timeticks schema node at which a specific occurrence happened.
  The specific occurrence must be defined in the description
  of any schema node defined using this type. When the specific
  occurrence occurred prior to the last time the associated
  timeticks attribute was zero, then the timestamp value is
  zero. Note that this requires all timestamp values to be
  reset to zero when the value of the associated timeticks
  attribute reaches 497+ days and wraps around to zero.

  The associated timeticks schema node must be specified
  in the description of any schema node using this type.

  In the value set and its semantics, this type is equivalent
to the TimeStamp textual convention of the SMIv2.";
  reference
  "RFC 2579: Textual Conventions for SMIv2";
}

/*** collection of generic address types ***/

typedef phys-address {
  type string {
    pattern '([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?';
  }
  description
  "Represents media- or physical-level addresses represented
  as a sequence octets, each octet represented by two hexadecimal
  numbers. Octets are separated by colons. The canonical
  representation uses lowercase characters."
typedef mac-address {
    type string {
        pattern '[0-9a-fA-F][2](:[0-9a-fA-F][2])\{5}';
    }
    description
    "The mac-address type represents an IEEE 802 MAC address. The canonical representation uses lowercase characters.

    In the value set and its semantics, this type is equivalent to the MacAddress textual convention of the SMIv2.";
    reference
    "IEEE 802: IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture
    RFC 2579: Textual Conventions for SMIv2";
}

/*** collection of XML specific types /***

typedef xpath1.0 {
    type string;
    description
    "This type represents an XPATH 1.0 expression.

    When a schema node is defined that uses this type, the description of the schema node MUST specify the XPath context in which the XPath expression is evaluated.";
    reference
    "XPATH: XML Path Language (XPath) Version 1.0";
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013341405_1597797436.82/0/ietf-yang-types-2010-09-24-7-lithium-sources-1-jar/META-INF/yang/ietf-yang-types.yang
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Found in path(s):
1.1158 sed 4.7 1

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### 1.1161 jackson-jaxrs 2.9.9

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1.1162 sqlhooks 1.3.0

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1.1163 logstash-filter-dns 3.1.4

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1.1164 ncurses-libs 6.1-7.20180224.el8

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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

Files: *
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when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

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1.1165 logfmt 0.5.1
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1.1167 jline-style 3.14.1

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* /opt/cola/permits/1258291748_1643053018.97/0/jline-style-3-14-1-sources-jar/org/jline/style/StyleResolver.java

1.1168 python3-cffi 1.11.5-5.el8
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1.1169 newt 0.52.2-15.el5
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Additional -

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File:  PSReadLine

https://github.com/lzybkr/PSReadLine

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File: HashTableFrom-ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1187 logstash-codec-line 3.1.1

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The following is a list of people who have contributed ideas, code, bug
reports, or in general have helped logstash along its way.

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1.1204 jnr-a64asm 1.0.0

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.1212 iwl2030-firmware 8.168.6.1-97.el8.1

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1.1213 zlib 1.2.8

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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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1.1214 liburcu 0.10.1-2.el8

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a
Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Version 2.1, February 1999

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1216 libx11 1.6.8-4.el8

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1.1233 unzip 6.0-25ubuntu1

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
  <mark.martinec@ijs.si>.
  Please look into snprintf.c for the copyright message.
  The complete snprintf package together with documentation is available
  from
  http://www.ijs.si/software/snprintf/  .

. The `grn' preprocessor, written by Barry Roitblat <barr@rentonww.com>
  and David Slattengren <slatteng@Xinet.COM>. These files have been part
  of the original Berkeley ditroff distribution, without AT&T code, and
  are in the public domain.
  The original package can be found at

  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

. The `xditview' output device. It is based on X11's `xditview' program
  and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

    tmac/doc.tmac
    tmac/doc-old.tmac
    tmac/doc-common
    tmac/doc-ditroff
    tmac/doc-nroff
    tmac/doc-syms
    tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

    tmac/e.tmac
    tmac/groff_me.man
    doc/meintro.me
Hyphenation Patterns

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

1.1238 ethtool 5.8-5.el8
1.1238.1 Available under license :

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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/journalctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-inhibit
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-notify
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-tmpfiles
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/udevadm
contrib/yocto/CGE7/journald.conf
infra/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/journald.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/systemd/user.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf
/usr/lib/systemd/systemd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
/usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
/usr/lib/systemd/system/basic.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/ctrl-alt-del.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-hugepages.mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/dev-mqueue.mount
infra/systemd/emergency.service
usr/lib/systemd/system/emergency.service
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/emergency.target
usr/lib/systemd/system/emergency.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/final.target
usr/lib/systemd/system/final.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/halt.target
usr/lib/systemd/system/halt.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/kexec.target
usr/lib/systemd/system/kexec.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/local-fs-pre.target
usr/lib/systemd/system/local-fs-pre.target
infra/systemd/local-fs.target
usr/lib/systemd/system/local-fs.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/network-online.target
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linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/network.target
usr/lib/systemd/system/network.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/paths.target
usr/lib/systemd/system/paths.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/poweroff.target
usr/lib/systemd/system/poweroff.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/reboot.target
usr/lib/systemd/system/reboot.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/remote-fs.target
usr/lib/systemd/system/remote-fs.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/rescue.service
usr/lib/systemd/system/rescue.service
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/rescue.target
usr/lib/systemd/system/rescue.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/shutdown.target
usr/lib/systemd/system/shutdown.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/slices.target
usr/lib/systemd/system/slices.target
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/sockets.target
usr/lib/systemd/system/sockets.target
/usr/lib/systemd/system/systemd-journald.socket
usr/lib/systemd/system/sockets.target.requires/systemd-journald.socket
/usr/lib/systemd/system/systemd-udevd-control.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udevd-control.socket
/usr/lib/systemd/system/systemd-udevd-kernel.socket
usr/lib/systemd/system/sockets.target.requires/systemd-udevd-kernel.socket
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/sys-kernel-config.mount
usr/lib/systemd/system/sys-kernel-config.mount
linkfarm/$SYSROOT$/ARCH$SDK$/usr/lib/systemd/system/sys-kernel-debug.mount
usr/lib/systemd/system/sys-kernel-debug.mount
/usr/lib/systemd/system/dev-hugepages.mount
usr/lib/systemd/system/sysinit.target.wants/dev-hugepages.mount
/usr/lib/systemd/system/dev-mqueue.mount
usr/lib/systemd/system/sysinit.target.wants/ dev-mqueue.mount
/usr/lib/systemd/system/sysinit.target.wants/ sys-kernel-config.mount
/usr/lib/systemd/system/sysinit.target.wants/ sys-kernel-debug.mount
/usr/lib/systemd/system/sysinit.target.wants/ systemd-journal-flush.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-journald.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-modules-load.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-sysctl.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-tmpfiles-setup-dev.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-udev-trigger.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-udevd.service
/usr/lib/systemd/system/sysinit.target.wants/ systemd-sysctl.service
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-halt.service
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-fsck@.service
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.socket
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udev-settle.service
usr/lib/systemd/system/systemd-udev-settle.service
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/systemd-udev-trigger.service
usr/lib/systemd/system/systemd-udev-trigger.service
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/systemd-udevd-control.socket
usr/lib/systemd/system/systemd-udevd-control.socket
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/systemd-udevd-kernel.socket
usr/lib/systemd/system/systemd-udevd-kernel.socket
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/timers.target
usr/lib/systemd/system/timers.target
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/time-sync.target
usr/lib/systemd/system/time-sync.target
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/umount.target
usr/lib/systemd/system/umount.target
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/bin/systemd-socket-activate
usr/bin/systemd-socket-activate
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-journald
usr/lib/systemd/systemd-journald
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-modules-load
usr/lib/systemd/systemd-modules-load
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-shutdown
usr/lib/systemd/systemd-shutdown
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-sysctl
usr/lib/systemd/systemd-sysctl
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
usr/lib/udev/rules.d/50-udev-default.rules
usr/lib/udev/rules.d/99-systemd.rules
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/bin/systemd-analyze
usr/bin/systemd-analyze
linkfarm/$[SYSROOT]$/[ARCH]/$[SDK]/usr/lib/systemd/system/machine.slice
infra/systemd/machine.slice
infra/systemd/systemd-journald.service.d/visible.conf
usr/lib/systemd/system/systemd-journald.service.d/visible.conf
infra/systemd/sysctl/inotify-user-instances.conf
etc/sysctl.d/inotify-user-instances.conf

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* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd-common
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(include systemd-common)

infra/systemd/switchroot/sysinit.target  usr/lib/systemd/system/sysinit.target
infra/systemd/switchroot/systemd-journald.service  usr/lib/systemd/system/systemd-journald.service
infra/systemd/switchroot/systemd-timedated.service  usr/lib/systemd/system/systemd-timedated.service
infra/systemd/switchroot/systemd-udevd.service  usr/lib/systemd/system/systemd-udevd.service
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/lib/systemd/system/systemd-journald-audit.socket
usr/lib/systemd/system/systemd-journald-audit.socket

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linkfarm/$(SYSROOT)$ARCH$SDK)/usr/bin/staprun  usr/bin/staprun
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/libexec/systemtap/stapio  usr/libexec/systemtap/stapio

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemtap
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#files related to nfs-statd.service
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/sbin/rpc.statd  usr/sbin/rpc.statd
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/sbin/sm-notify  usr/sbin/sm-notify
infra/systemd/nfs-statd.service  usr/lib/systemd/system/nfs-statd.service
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/sbin/nfsstat  usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/sbin/rpc.idmapd  usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount  usr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# plugin nsswitch for rpc.idmapd can not be figure out automatilly by dependency.
# The directory for plugin is fix to usr/lib/libnfsidmap
linkfarm/$(SYSROOT)$ARCH$SDK)/usr/lib/libnfsidmap/nsswitch.so  usr/lib/libnfsidmap/nsswitch.so
linkfarm/$(SYSROOT)$ARCH$SDK)/etc/idmapd.conf  etc/idmapd.conf
infra/systemd/nfs-idmapd.service  usr/lib/systemd/system/nfs-idmapd.service
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common
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(include all-common)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/kill
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/umount
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/iptables
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/arch
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/cal
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/chrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/col
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/colcrt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/flock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/getopt
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ionice  
usr/bin/ionice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm  
usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs  
usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isosize  
usr/bin/isosize
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last  
usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/logger  
usr/bin/logger
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/look  
usr/bin/look
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/lsblk  
usr/bin/lsblk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mesg  
usr/bin/mesg
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/namei  
usr/bin/namei
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/newgrp  
usr/bin/newgrp
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/nsenter  
usr/bin/nsenter
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rename  
usr/bin/rename
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/renice  
usr/bin/renice
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rev  
usr/bin/rev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/script  
usr/bin/script
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setsid  
usr/bin/setsid
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/setterm  
usr/bin/setterm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/taskset  
usr/bin/taskset
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ul  
usr/bin/ul
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/wall  
usr/bin/wall
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/whereis  
usr/bin/whereis
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/write  
usr/bin/write
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/fdformat  
usr/bin/fdformat
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/mkfs  
usr/bin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/raw  
usr/bin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/zramctl  
usr/bin/zramctl

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/util-linux
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#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service  
usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service  
usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount  
usr/lib/systemd/system/proc-fs-nfsd.mount

linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/exportfs  
usr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountd  
usr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsd  
usr/sbin/rpc.nfsd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/rpcinfo  
usr/bin/rpcinfo

(include nfs-common)
The following kernel modules are needed when NFSV4 support is configured in kernel.

- nfsd.ko depend on auth_rpcgss.ko
- auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils

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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc  usr/bin/ipcalc

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/ipcalc

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(include audit)
(include bash)
(include binutils)
(include bridge-utils)
(include busybox)
(include bzip2)
(include coreutils)
(include cpio)
(include dbus)
(include diffutils)
(include dosfstools)
(include e2fsprogs)
(include ethtool)
(include file)
(include filesystem)
(include findutils)
(include gawk)
(include glIBC)
(include grep)
(include gzip)
(include initscripts)
(include ipcalc)
(include iproute2)
(include iptables)
(include iputils)
(include kexec-tools)
(include kmod)
(include less)
(include libcap)
(include lsof)
(include modules)
(include ncurses)
(include netbase)
(include netcat)
(include netkit-telnet)
(include net-tools)
(include ${NFS_VER}/nfs-utils-client)
(include pcutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include syslogd)
(include systemtap)
(include sysvinit)
(include tar)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-common
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(linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service)
/usr/lib/systemd/system/tmp.mount
/usr/lib/systemd/system/local-fs.target.requires/tmp.mount
infra/systemd/sysinit.target
infra/systemd/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service

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usr/lib/systemd/system/systemd-journald.service
infra/systemd/systemd-journald.service.d/visible.conf  usr/lib/systemd/system/systemd-journald.service.d/visible.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-timedated.service
usr/lib/systemd/system/systemd-timedated.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udevd.service
usr/lib/systemd/system/systemd-udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/tmp.mount
usr/lib/systemd/system/tmp.mount

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/systemd
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#
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#
# This file contains all needed files related to nfs server daemon.
#
infra/systemd/nfs-mountd.service  usr/lib/systemd/system/nfs-mountd.service
infra/systemd/nfs-server.service  usr/lib/systemd/system/nfs-server.service
infra/systemd/proc-fs-nfsd.mount  usr/lib/systemd/system/proc-fs-nfsd.mount

(link include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatable when NFSV4 support is configured in kernel.
# When nfsv4 is enabled in kernel, it brings in extra dependency for
# nfsd.ko, which is needed for nfsv3 verver.
# so treat extra modules needed by nfsd.ko as optional since it depend on kernel
# configure.
#
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko

-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
usr/lib/modules/${KERNEL_VER}/kernel/lib/oid_registry.ko
-${PLATFORM_SYSROOT}/usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
usr/lib/modules/${KERNEL_VER}/kernel/net/sunrpc/auth_gss/auth_rpcgss.ko

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-utils
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linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/rpc.statd     usr/sbin/rpc.statd
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/sm-notify     usr/sbin/sm-notify
infra/systemd/nfs-statd.service                      usr/lib/systemd/system/nfs-statd.service
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/nfsstat       usr/sbin/nfsstat

contrib/initscripts/binos/etc/[$NFS_VER]/nfs-utils.conf etc/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv3/nfs-common
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#
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include all-common

# include systemd-swrt

linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/mount.nfs     usr/sbin/mount.nfs
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/umount.nfs    usr/sbin/umount.nfs
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/mount.nfs4    usr/sbin/mount.nfs4
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/sbin/umount.nfs4   usr/sbin/umount.nfs4

contrib/initscripts/binos/etc/[$NFS_VER]/nfsmount.conf etc/nfsmount.conf

$[PLATFORM_SYSROOT]/usr/lib/modules/[$KERNEL_VER]/kernel/fs/nfs/nfsv4.ko
usr/lib/modules/[$KERNEL_VER]/kernel/fs/nfs/nfsv4.ko

(include nfs-common)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-utils-client
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#
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#
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd              usr/sbin/auditd
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/audispd              usr/sbin/audispd
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/autrace              usr/sbin/autrace
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport              usr/sbin/aureport
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditctl             usr/sbin/auditctl
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/sbin/ausearch             usr/sbin/ausearch

contrib/initscripts/binos/etc/audit/auditd.conf                etc/audit/auditd.conf
contrib/initscripts/binos/etc/audisp/audispd.conf              etc/audisp/audispd.conf
contrib/initscripts/binos/etc/audit/audit.rules                etc/audisp/audit.rules
contrib/initscripts/binos/etc/audisp/plugins.d/syslog.conf     etc/audisp/plugins.d/syslog.conf
linkfarm}/${SYSROOT}${ARCH}${SDK}/etc/default/auditd            etc/default/auditd
linkfarm}/${SYSROOT}${ARCH}${SDK}/etc/libaudit.conf             etc/libaudit.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit
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#
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/bin/ping           usr/bin/ping
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/bin/tracepath      usr/bin/tracepath
linkfarm}/${SYSROOT}${ARCH}${SDK}/usr/bin/tftpd-hpa  usr/bin/tftpd

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/iputils

1.1239 buildah 1.15.1-
2.module+el8.3.0+8221+97165c3f

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Version 3, 29 June 2007

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goproperties - properties file decoder for Go

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* /opt/cola/permits/1110676080_1654022842.8725438/0/hk2-api-2-3-0-b10-sources-2-jar/org/glassfish/hk2/api/DescriptorVisibility.java
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1.1247 python3-gobject 3.28.3-1.el8

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1.1250 jquery-file-upload-plugin 5.31.6

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JUnit

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/*
   ****************************************************************************
   *ppport.h -- Perl/Pollution/Portability Version 3.32
   *
   *Automatically created by Devel::PPPort running under perl 5.022001.
   *
   *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.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.
=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<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 F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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. Warnings will still be displayed.

=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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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.
Show portability information for API elements matching \$name\. If \$name\$ is surrounded by slashes, it is interpreted as a regular expression.

**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.

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 `PL_` prefix is deprecated. Also, some API functions used to have a `perl_` prefix. Using this form is also deprecated. You can safely use the supported API, as `ppport.h` will provide wrappers for older Perl versions.

If you use one of a few functions or variables 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 `#define`s in your source code before the inclusion of `ppport.h`.

These functions or variables will be marked `explicit` in the list shown by `--list-provided`.

Depending on whether your module has a single or multiple files that use such functions or variables, you want either `static` or global variants.

For a `static` function or variable (used only in a single source file), use:
#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
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<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
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<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noince()</td>
<td>NEED_newRV_noince</td>
<td>NEED_newRV_noince_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
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<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
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<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
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<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
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<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
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<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
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<tr>
<td>sv_catphvf_mg()</td>
<td>NEED_sv_catphf_mg</td>
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<tr>
<td>sv_catpvhf_mg_nocontext()</td>
<td>NEED_sv_catpvhf_mg_nocontext</td>
<td>NEED_sv_catpvhf_mg_nocontext_GLOBAL</td>
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<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
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<td>NEED_sv_setpvhf_mg</td>
<td>NEED_sv_setpvhf_mg_GLOBAL</td>
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<td>NEED_sv_setpvhf_mg_nocontext</td>
<td>NEED_sv_setpvhf_mg_nocontext_GLOBAL</td>
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<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
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<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
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<tr>
<td>vnewSVpvhf()</td>
<td>NEED_vnewSVpvhf</td>
<td>NEED_vnewSVpvhf_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace
#include "ppport.h"
```

The default namespace is `DPPP_`.

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

### EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```bash
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:

```bash
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:

```bash
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```bash
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.
If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

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 here: L<https://github.com/mhx/Devel-PPPort/issues/>

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) 2004-2013, 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;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.32;

my %opt = (
    quiet  => 0,
    diag   => 1,
    hints  => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);


my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
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 {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $1 => {
($2
? ( base => $2 ) : ()),

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($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(
ASCII_TO_NEED||5.007001
AvFILLp|5.004050|p
AvFILL||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope|5.005000|p
CX_CURPAD_SAVE||
CX_CURPAD SV||
CopFILEAV|5.006000|p
CopFILEGV_set|5.006000|p
CopFILEGV|5.006000|p
CopFILESV|5.006000|p
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CopFILE|5.006000|p
CopSTASHPV_set|5.006000|p
CopSTASHPV|5.006000|p
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CopSTASH|5.006000|p
CopyD|5.009002|5.004050|p
Copy||
CvPADLIST|5.008001|
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.010001|p
DEFSV|5.004050|p
END_EXTERN_C|5.005000|p
ENTER||
ERRSV|5.004050|p
EXTEND||
EXTERN_C|5.005000|p
F0convert|n
FREETMPS||
GIMME_VI|5.004000|n
GIMME||n
GROK_NUMERIC_RADIX|5.007002|p
G_ARRAY||
G_DISCARD||
G_EVAL||
G_METHOD|5.006001|p
G_NOARGS||
G_SCALAR||
G_VOID|5.004000|
GetVars||
GvAV||
GvCV||
GvHV||
GvSVn|5.009003|p
GvSV||
Gv_AMupdate|5.011000|
HEf_SVKEY|5.003070|p
HeHASH|5.003070|
HeKEY|5.003070|
HeKLEN|5.003070|
HePV|5.004000|
HeSVKEY_force|5.003070|
HeSVKEY_set|5.004000|
HeSVKEY|5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL|5.003070|
HvENAMELEN|5.015004|
HvENAMEUTF8|5.015004|
HvENAME|5.013007|
HvNAMELEN_get|5.009003|p
HvNAMELEN|5.015004|
HvNAMEUTF8|5.015004|
HvNAME_get|5.009003|p
HvNAME||
INT2PTR|5.006000|p
IN_LOCALE_COMPILETIME|5.007002|p
IN_LOCALE_RUNTIME|5.007002|p
IN_LOCALE|5.007002|p
IN_PERL_COMPILETIME|5.008001|p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002|p
IS_NUMBER_INFINITY|5.007002|p
IS_NUMBER_IN_UV|5.007002|p
IS_NUMBER_NAN|5.007003|p
IS_NUMBER_NEG|5.007002|p
IS_NUMBER_NOT_INT|5.007002|p
IVSIZE|5.006000|p
IVTYPE|5.006000|p
IVdf|5.006000|p
LEAVE||
LINKLIST|5.013006|
LVRET||
PAD_SV||
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PERLIO_FUNCS_DECL[5.009003]||p
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sv-dup_inc_multiple|
sv-dup_inc|
sv-dup|
sv-eq_flags|5.013006|
sv-eq|
sv-exp_grow|
sv-force_normal_flags|5.007001|
sv-force_normal|5.006000|
sv-free2|
sv-free_arenas|
sv-free|
sv-get_backrefs|5.021008|n
```perl
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", 
```
```
else { undef $hint }
}

$hint = [$1, split /, /, $2]
    if m{\s*rcce\s+\(Hint|Warning):(w+)?\s*\}\s*$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] = ";
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{\s*define\s+(\w+)(?:\(\[^\)]*\))\s+(.*)};

if ($function) {
    if (/\$/) { 
        if (exists $API{$function->[0]} & $function->[1] !~ /^DPPP_\$/) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{\s*rcce\s+Replace:is+(\d+)?s+\s*rcce\s*};
$replace{$2} = $1 if $replace && m{\s*\#s*define\s+(\w+)(?:\([^\)]*\))\s*\(\w+\)};
$replace{$2} = $1 if m{\s*\#s*define\s+(\w+)(?:\[^\)]*\))\s*\(\w+\).\s*rcce\s+Replace\s+rcce\s*};
$replace{$1} = $2 if m{\s*rcce\s+Replace \(\w+\) with \(\w+\) \s+rcce\s*};

if (m{\s*rcce\s+(\w+\(\w+\)*s+\(\w+\)\)+s+\s+depends\s+on\s+(\w+\(\w+\)*s+s+\(\w+\)*s+)\s+rcce\s*}) { 
    my @deps = map { s/[^/]+/; S_ } split //, $3;
    my $d;
    for $d (map { s/[^/]+/; S_ } split //, $1) {
        push @{$depends{$d}}, @deps;
    }
}
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```
$need{$_} = 1 if m{('^if\s+defined\((NEED_\(\w+\)(?:_GLOBAL)?\))');
}

for (values %depends) {
    my %s;
    $_ = [sort grep !$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 "Depends on: \njoin(',\n', @$depends{$f})), \n\n" if exists $depends{$f};
            print "\nShints{$f}" if exists $hints{$f};
            print "\nWARNING: \nwarnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{api-info}'.";
    print "\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};
        push @flags, 'warning'  if exists $warnings{$f};
```
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
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);

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}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};

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while ($c =~ /^\$HS*#\$HS*define\$HS+(NEED_\w+(_GLOBAL)?)/m) {
    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 @t = grep $files{$_}{'needed_global'}{$need}, @targets;
        @targets = @t if @t;
    }
}
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
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};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}
for $func (sort keys %{$file{uses_provided}}) {
if ($file{uses}{$func}) {
if (exists $file{uses_deps}{$func}) {
diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
}

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else {
    diag("Uses $func");
}

$warnings += hint($func);

}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport'un";
        $warnings++;
    }
}

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";
        }
    }
    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'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*$HS*$define$HS+NEED_\w+.*)?$/S$pp/m)
            || ($c =~ s/^($HS*$HS*$define$HS+NEED_\w+.*)?$/S$pp/m)
            || ($c =~ s/^(?=$HS*$HS*$include.\Q$ppport\E).*?$LF//m)
            || ($c =~ s/^/$pp/);
    } else {
        if ($file{has_inc_ppport}) {
            diag("No need to include '$ppport'");
            $file{changes} += ($c =~ s/^$HS*$HS*$include.\Q$ppport\E.\?SLF//m);
        }
    }

    # put back in our C comments
    my $six;
    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/$ccs$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");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

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") {
        info("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: "$!");
        }
      } else {
        error("Cannot open '$opt{patch}' for writing: "$!");
      }
      delete $opt{patch};
      $opt{changes} = 1;
      goto fallback;
    } elsif (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") {
          info("Writing copy of '$filename' with changes to '$newfile'");
          print F $c;
          close F;
        } else {
          error("Cannot open '$newfile' for writing: "$!");
        }
      }
    } else {
      error("Neither --patch nor --copy specified");
      goto fallback;
    }
  } else {
    error("Neither --patch nor --copy specified");
    goto fallback;
  }
}
mydiff(*PATCH, $filename, $c);

else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
        }
    }
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 try_use { eval "use @_;"; return $@ eq "" }

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 try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $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 $str;
        close F;
    }
    else { 
        error("Cannot open '$tmp' for writing: $!");
    }

    $diff .= $_;
    close F;
    unlink $tmp;
    return $diff;
}

    unlink $tmp;
}
else { 
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend
my($func, $seen) = @_;  
return () unless exists $depends{$func};  
$seen = {%{$seen||{}}};  
return () if $seen->{$func}++;  
my %s;  
grep !{$s{$_}++}, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};  
}

sub parse_version
{
my $ver = shift;

if ($ver =~ /^(\d+).(\d+).(\d+)/) {
    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+/.){$
    die "cannot parse version '$ver'\n";
}

$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'\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/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'\n";
    }
}

return ($r, $v, $s);  
}
if ($s % 10) {
    die "invalid version '$ver'
};
$s /= 10;

$ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_%02d", $s;

return $ver;
}

return sprintf "%d.%d.%d", $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;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func\n", $warn;
    }
$rv++;  
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---
", $hint;
}
$rv;
}

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;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };  
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^\w+$/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/\s*$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/\s*$SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort };  
    \$@ and die "Cannot require Devel::PPPort, please install.\n";
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
        die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
}
    print <<<END;

threads - Perl interpreter-based threads

This document describes threads version 2.21

The "interpreter-based threads" provided by Perl are not the fast, lightweight system for multitasking that one might expect or hope for. Threads are implemented in a way that make them easy to misuse. Few people know how to
use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially 
L<discouraged|perlpolicy/discouraged>.

=head1 SYNOPSIS

use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;
    print("Thread started: \', join(" ", @args), \n");
} 
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({"context" => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();
# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();
my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
  ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context' => 'list',
                           'stack_size' => 32*4096,
                           'exit' => 'thread_only' },
                           \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
  sleep(1);
}
if ($thr->is_joinable()) {
  $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.)
This threading model has been deprecated, and was removed as of Perl 5.10.0.

As just mentioned, all variables are, by default, thread local. To use shared variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you C<use threads::shared>. (C<threads> will emit a warning if you do it the other way around.)

It is strongly recommended that you enable threads via C<use threads> as early as possible in your script.

If needed, scripts can be written so as to run on both threaded and non-threaded Perls:

    my $can_use_threads = eval 'use threads; 1';
    if ($can_use_threads) {
        # Do processing using threads
        ...
    } else {
        # Do it without using threads
        ...
    }

=item $thr = threads->create(FUNCTION, ARGS)

This will create a new thread that will begin execution with the specified entry point function, and give it the I<ARGS> list as parameters. It will return the corresponding threads object, or C<undef> if thread creation failed.

I<FUNCTION> may either be the name of a function, an anonymous subroutine, or a code ref.

    my $thr = threads->create('func_name', ...);
    # or
    my $thr = threads->create(sub { ... }, ...);
    # or
    my $thr = threads->create(&func, ...);

The C<-E<gt>new()> method is an alias for C<-E<gt>create>().

=item $thr->join()
This will wait for the corresponding thread to complete its execution. When the thread finishes, `C<gt>join()> will return the return value(s) of the entry point function.

The context (void, scalar or list) for the return value(s) for `C<gt>join()> is determined at the time of thread creation.

```perl
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
    return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
    sub {
    my @results = qw(a b c);
    return (@results);
    });
# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
    sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();

See L</"THREAD CONTEXT"> for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling `C<gt>join()> or `C<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.
If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

    use threads qw(stringify);
    my $thr = threads->create(...);
    print("Thread $thr started\n");  # Prints: Thread 1 started

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.
You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

if ($thr1 == $thr2) {
    print("Threads are the same\n");
}

# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef>
if the thread terminates normally. Otherwise, it returns the value of 
C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This private method returns a pointer (i.e., the memory location expressed 
as an unsigned integer) to the internal thread structure associated with a 
threads object. For Win32, this is a pointer to the C<HANDLE> value returned 
by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer 
to the C<pthread_t> structure used in the C<pthread_create> call (i.e., 
C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is 
to provide other (XS-based) thread modules with the capability to access, and 
possibly manipulate, the underlying thread structure associated with a Perl 
thread.

=item threads->_handle()

Class method that allows a thread to obtain its own handle.

=over

=head1 EXITING A THREAD

The usual method for terminating a thread is to 
L<return()> from the entry point function with the 
appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling 
C<threads->exit()>. This will cause the thread to return C<undef> in a 
scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads->exit()> (i.e., the 
exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()
Calling C<die()> in a thread indicates an abnormal exit for the thread. Any
C<$SIG{__DIE__}> handler in the thread will be called first, and then the
thread will exit with a warning message that will contain any arguments passed
in the C<die()> call.

=item exit(status)

Calling L<exit()> inside a thread causes the whole application to terminate. Because of this, the use of C<exit()> inside
threaded code, or in modules that might be used in threaded applications, is
strongly discouraged.

If C<exit()> really is needed, then consider using the following:

   threads->exit() if threads->can('exit');  # Thread friendly
   exit(status);

=item use threads 'exit' => 'threads_only'

This globally overrides the default behavior of calling C<exit()> inside a
thread, and effectively causes such calls to behave the same as
C<threads-E<gt>exit()>.
In other words, with this setting, calling C<exit()> causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules
or the like.

The I<main> thread is unaffected by this setting.

=item threads->create({'exit' => 'thread_only'}, ...)

This overrides the default behavior of C<exit()> inside the newly created
thread only.

=item $thr->set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after
it has been created. With a I<true> argument, C<exit()> will cause only the
thread to exit. With a I<false> argument, C<exit()> will terminate the
application.

The I<main> thread is unaffected by this call.

=item threads->set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.
THREAD STATE

The following boolean methods are useful in determining the state of a thread.

=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to $thr->join() will not block.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's context: list, scalar or void.

The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via wantarray(). The thread may then specify a value of the appropriate type to be returned from $thr->join().

Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling create() with a hash reference as the first argument:

my $thr = threads->create({'context' => 'list'}, \&foo);
...
my @results = $thr->join();
In the above, the threads object is returned to the parent thread in scalar
context, and the thread's entry point function C<foo> will be called in list
(array) context such that the parent thread can receive a list (array) from
the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'list'>.)
Similarly, if you need the threads object, but your thread will not be
returning a value (i.e., I<void> context), you would do the following:
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();
The context type may also be used as the I<key> in the hash reference followed
by a I<true> value:
threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();
=head2 Implicit context
If not explicitly stated, the thread's context is implied from the context
of the C<-E<gt>create()> call:
# Create thread in list context
my ($thr) = threads->create(...);
# Create thread in scalar context
my $thr = threads->create(...);
# Create thread in void context
threads->create(...);
=head2 $thr->wantarray()
This returns the thread's context in the same manner as
L<wantarray()|perlfunc/"wantarray">.
=head2 threads->wantarray()
Class method to return the current thread's context. This returns the same
value as running L<wantarray()|perlfunc/"wantarray"> inside the current
thread's entry point function.

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### THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)> or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)
This sets the default per-thread stack size at the start of the application.

The default per-thread stack size may be set at the start of the application through the use of the environment variable `PERL5_ITHREADS_STACK_SIZE`:

```
PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any `stack_size` parameter given to `use threads`. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

To specify a particular stack size for any individual thread, call `create()` with a hash reference as the first argument:

```
my $thr = threads->create({'stack_size' => 32*4096}, \&foo, @args);
```

This creates a new thread ($thr2) that inherits the stack size from an existing thread ($thr1). This is shorthand for the following:

```
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size}, \&foo, @args);
```

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

```
$thr->kill('SIG...');
```

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by
Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for cancelling a thread:

```perl
use threads;

sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit; }; 

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();
```

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

```perl
use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down;      # Thread suspended
        $sema->up;        # Thread resumes
    }

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...
... 
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr-E<gt>kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the C<kill()> command (e.g., C<kill('KILL', $$)> are okay to use with the C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is I<stuck> on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #
See the appropriate `man` page for `pthread_create` to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using `threads->exit()`. For example, the thread may have terminated because of an error, or by using `die`.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified `I<SIZE>` exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

    no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the `useithreads` configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the `threads` module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:
$thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C<-E<gt>kill()> call.

=back

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over

=item Thread-safe modules

See L<perlmod/Making your module threadsafe> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

    sub thr_func
    {
        require Unsafe::Module
        # Unsafe::Module->import(...);
        ....
    }

    If the module is needed inside the I<main> thread, try modifying your
application so that the module is loaded (again using C<require> and
C<-E<gt>import()> after any threads are started, and in such a way that no
other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file
a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads
can lead to ever-increasing growth in the memory footprint of the Perl
interpreter. While it is simple to just launch threads and then
C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is
better to maintain a pool of threads, and to reuse them for the work needed,
using L<queues|Thread::Queue> to notify threads of pending work. The CPAN
distribution of this module contains a simple example
(F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a
pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory
is shared among all threads such that changing it in one thread (e.g., using
C<chdir()> will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory
setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using
C<system()> or back-ticks) made from threads use the environment variable
settings from the I<main> thread. In other words, changes made to C<%ENV> in
a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call.
For example:

    my $msg = 'hello';
    system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script.
Therefore, setting up signal handlers in threads for purposes other than
L</"THREAD SIGNALLING"> as documented above will not accomplish what is
This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

```perl
# Create thread with a task that may time out
my $thr = threads->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); }; 
        alarm(10); 
        ... # Do work here 
        alarm(0); 
    }; 
    if ($@ =~ /Timeout/){
        warn("Task in thread timed out\n");
    }
};

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') }; 

... # Main thread continues working
```

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">). 

=item * The module L<Perl::Unsafe::Signals> is used.
If unsafe signals is in effect, then signal handling is not thread-safe, and the \texttt{kill()} signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a \texttt{join} operation, the value and everything that it references is copied across to the joining thread, in much the same way that values are copied upon thread creation. This works fine for most kinds of value, including arrays, hashes, and subroutines. The copying recurses through array elements, reference scalars, variables closed over by subroutines, and other kinds of reference.

However, everything referenced by the returned value is a fresh copy in the joining thread, even if a returned object had in the child thread been a copy of something that previously existed in the parent thread. After joining, the parent will therefore have a duplicate of each such object. This sometimes matters, especially if the object gets mutated; this can especially matter for private data to which a returned subroutine provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using \texttt{Data::Dumper} or \texttt{Storable}), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports \texttt{threads::shared/OBJECTS}, you can pass them via \texttt{shared queues/Thread::Queue}.

=item END blocks in threads

It is possible to add \texttt{BEGIN, UNITCHECK, CHECK, INIT and END} to threads by using \texttt{require/require VERSION} or \texttt{eval/eval EXPR} with the appropriate code. These \texttt{END} blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a \texttt{join} call, or at program termination).

However, calling any \texttt{threads} methods in such an \texttt{END} block will most likely fail (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the \texttt{threads} module.

For this reason, the use of \texttt{END} blocks in threads is strongly discouraged.
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=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter. L<http://rt.perl.org/rt3/Public/Bug/Display.html?id=75154>

=item Detached threads and global destruction

If the main thread exits while there are detached threads which are still running, then Perl's global destruction phase is not executed because otherwise certain global structures that control the operation of threads and that are allocated in the main thread's memory may get destroyed before the detached thread is destroyed.

If you are using any code that requires the execution of the global destruction phase for clean up (e.g., removing temp files), then do not use detached threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO
threads on MetaCPAN:
L<https://metacpan.org/release/threads>

Code repository for CPAN distribution:
L<https://github.com/Dual-Life/threads>
L<threads::shared>, L<perlthrtut>
L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

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Stack size API

=cut
Found in path(s):
* /opt/cola/permits/1175310752_1624357773.14/0/perl-threads-2.21-2.el8-1.src.rpm-cosi-expand-archive-5zGS5jzR/threads-2.21.tar.gz-cosi-expand-archive-RHYbK0yf/threads-2.21/lib/threads.pm
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1.1260 google-uuid 1.1.2

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1.1261 system-security-cryptography-openssl

5.0.0.0

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/cola/permits/1175310472_1624359047.96/0/spring-security-web-5-4-2-sources-2-
  jar/org/springframework/security/web/util/matcher/RequestVariablesExtractor.java
* /opt/cola/permits/1175310472_1624359047.96/0/spring-security-web-5-4-2-sources-2-
  jar/org/springframework/security/web/servlet/util/matcher/MvcRequestMatcher.java
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jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenMixin.java
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* /opt/cola/permits/1175310472_1624359047.96/0/spring-security-web-5-4-2-sources-2-
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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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*/
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * @subtypes
 * {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * */
 * <p>
 *
For more information, please refer to the documentation of each subtype.<br/>

The context object<br/>

A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s which is specific to the handler.<br/>

State management<br/>

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:<br/>

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }...
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:<br/>

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.
```
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {  
*     {@code @Override}  
*     public void initChannel({@link Channel} channel) {  
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);  
*     }  
* }  
* </pre>  
*  
* </h4>  
*  
* * Using {@link AttributeKey}s  
*  
* * Although it's recommended to use member variables to store the state of a  
* handler, for some reason you might not want to create many handler instances.  
* In such a case, you can use {@link AttributeKey}s which is provided by  
* {@link ChannelHandlerContext}:  
* </pre>  
* * public interface Message {  
*     // your methods here  
* }  
*  
* * {@code @Sharable}  
* * public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {  
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =  
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};  
*  
* *     {@code @Override}  
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {  
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);  
*         if (message instanceof LoginMessage) {  
*             authenticate((LoginMessage) o);  
*             <b>attr.set(true)</b>;  
*         } else (message instanceof GetDataMessage) {  
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {  
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));  
*             } else {  
*                 fail();  
*             }  
*         }  
*     }  
*     ...  
* }  
* </pre>  
* Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the  
* same handler instance to different pipelines:  
* </pre>  
* * public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {  
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
```java
@code @Override
def public void initChannel(@link Channel channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
}
</code>

<h4>The @Sharable annotation</h4>

In the example above which used an @link AttributeKey, you might have noticed the @code @Sharable annotation.

If a @link ChannelHandler is annotated with the @code @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more @link ChannelPipeline)s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

<h3>Additional resources worth reading</h3>

Please refer to the @link ChannelHandler, and @link ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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  jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1337322552_1654191398.5588224/0/netty-transport-4-1-66-final-sources-1-
  jar/io/netty/channel/WriteBufferWaterMark.java
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jar/io/netty/channel/ExtendedClosedChannelException.java
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*/
package org.apache.xalan;

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 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
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 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * <P>Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
}
*/
* Print the processor version to the command line.
* @param argv command line arguments, unused.
*
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product: Xalan.
*/
public static String getProduct()
{
    return "Xalan";
}

/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}

/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg,
*   implementation of a new W3C specification.
*
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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 * limitations under the License.
 */
/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPHandler
 * @xsl.usage internal
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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*/

Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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*/

#$Id: Version.src 468654 2006-10-28 07:09:23Z minchau $#

package org.apache.xml.serializer;

/**
* Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/

public final class Version
{

/**
* Get the basic version string for the current Serializer.
* Version String formatted like


* <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
* 
* Futurework: have this read version info from jar manifest.
* 
* @return String denoting our current version
*/
public static String getVersion()
{
    return getProduct() + " "+getImplementationLanguage() + " 
    +getMajorVersionNum() + "," +getReleaseVersionNum()+"."
    +((getDevelopmentVersionNum() > 0) ? 
      ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
* Print the processor version to the command line.
* 
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product: Serializer.
*/
public static String getProduct()
{
    return "Serializer";
}

/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}

/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

```java
/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

```java
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

```java
/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the
```
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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 */

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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   */

/* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $ */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;
/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**

This method is similar to findNodeType(int, Object) except that it
creates a StepPattern instead of just returning a node type. It also
diffs in the way it handles "{uri}:*" and "{uri}:@*". The last two
patterns are expanded as "*[namespace-uri() = 'uri']" and
"@*[namespace-uri() = 'uri']", respectively. This expansion considerably
simplifies the grouping of patterns in the Mode class. For this
expansion to be correct, the priority of the pattern/template must be
set to -0.25 (when no other predicates are present).

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
  int nodeType;
  if (test == null) { // "*
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
               (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    return new StepPattern(axis, nodeType, predicates);
  } else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
    return new StepPattern(axis, nodeType, predicates);
  } else {
    QName name = (QName)test;
    boolean setPriority = false;
    if (axis == Axis.NAMESPACE) {
      nodeType = (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
    } else {
      final String uri = name.getNamespace();
      final String local = name.getLocalPart();
      final QName namespace_uri =
                         __parser.getQNameIgnoreDefaultNs("namespace-uri");

      // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
      if (uri != null && (local.equals("*")) || local.equals("@*")) {
        if (predicates == null) {
          predicates = new Vector(2);
        }
        predicates.add(new Predicate(
          new Predicate(1)
          ...
        )
      } else {
        // Priority is set by hand if no other predicates exist
        setPriority = (predicates.size() == 0);
        predicates.add(new Predicate(1)
          ...
        )
      }
    }
  }
}
new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri)));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
} else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;
}

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
} else if (test instanceof Integer) {
    return ((Integer)test).intValue();
} else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (name.getNamespace() == null) {
                return (axis == Axis.ATTRIBUTE) ?
(name.toString().equals("*")) ? -1
: _xsltc.registerNamespacePrefix(name);

            }
        }
    }
}

return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
} else if (local.equals(@*)) {
    return NodeTest.ATTRIBUTE;
}

return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                       lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
        return null;
    }
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
    return(result);
else
    return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 * /
 * public boolean isElementAxis(int axis) {
 * return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
 * axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
 * }
 */

terminatSLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminatDOLLAR, ATSIGN;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
    {: RESULT = pattern; :}

    | EXPRESSION Expr:expr
    {: RESULT = expr; :};

/"* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
    {: RESULT = lpp; :}

    | LocationPathPattern:lpp VBAR Pattern:p
    {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
    {: RESULT = new AbsolutePathPattern(null); :}

    | SLASH RelativePathPattern:rpp
    {: RESULT = new AbsolutePathPattern(rpp); :}

    | IdKeyPattern:ikp
    {: RESULT = ikp; :}

    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    {: RESULT = new ParentPattern(ikp, rpp); :}

    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    {: RESULT = new AncestorPattern(ikp, rpp); :}

    | DSLASH RelativePathPattern:rpp
    {: RESULT = new AncestorPattern(rpp); :}

    | RelativePathPattern:rpp
    {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    {: RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
    :}

    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    {: RESULT = new KeyPattern(l1, l2); :};
ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{: RESULT = pip; // TODO: report error if axis is attribute :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp
{: :}
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
:;

NodeTestPattern ::= NameTestPattern:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :}
Expr ::= OrExpr:ex
   { RESULT = ex; }

OrExpr ::= AndExpr:ae
   { RESULT = ae; }
   | OrExpr:oe OR AndExpr:ae
   { RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); }

AndExpr ::= EqualityExpr:e
   { RESULT = e; }
   | AndExpr:ae AND EqualityExpr:ee
   { RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); }

EqualityExpr ::= RelationalExpr:re
   { RESULT = re; }
   | EqualityExpr:ee EQ RelationalExpr:re
   { RESULT = new EqualityExpr(Operators.EQ, ee, re); }
   | EqualityExpr:ee NE RelationalExpr:re
   { RESULT = new EqualityExpr(Operators.NE, ee, re); }

RelationalExpr ::= AdditiveExpr:ae
   { RESULT = ae; }
   | RelationalExpr:re LT AdditiveExpr:ae
   { RESULT = new RelationalExpr(Operators.LT, re, ae); }
   | RelationalExpr:re GT AdditiveExpr:ae
   { RESULT = new RelationalExpr(Operators.GT, re, ae); }
   | RelationalExpr:re LE AdditiveExpr:ae
   { RESULT = new RelationalExpr(Operators.LE, re, ae); }
   | RelationalExpr:re GE AdditiveExpr:ae
   { RESULT = new RelationalExpr(Operators.GE, re, ae); }

AdditiveExpr ::= MultiplicativeExpr:me
   { RESULT = me; }
   | AdditiveExpr:ae PLUS MultiplicativeExpr:me
   { RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); }
AdditiveExpr:ae MINUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: :
// Expand '//' into '/descendant-or-self::node()' or
// into '/descendant-or-self::*'
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}
| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}
| RelativeLocationPath:rlp SLASH Step:step
{: if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step; // Remove '.' from the middle
} else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp; // Remove 'l.' from the end
} else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
} :}
| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{: final Step right = (Step)step;
    final int axis = right.getAxis();
}
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress './/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        } else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            RESULT = new ParentLocationPath(left, right);
        }
    } else {
        // Expand './/step' -> 'descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                           DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                           DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
                           DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
      // Expand '// into '/descendant-or-self::node()' or
      // into /descendant-or-self::*/
      //
      int nodeType = DOM.NO_TYPE;
      if (rlp instanceof Step &&
          parser.isElementAxis(((Step) rlp).getAxis()))
      {
        nodeType = DTM.ELEMENT_NODE;
      }
      final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
      RESULT = new AbsoluteLocationPath(parser.insertStep(step,
          (RelativeLocationPath) rlp));
    :};

Step ::= NodeTest:ntest
    {:
      if (ntest instanceof Step) {
        RESULT = (Step)ntest;
      } else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest),
            null);
      }
    :};

| NodeTest:ntest Predicates:pp
  {:
    if (ntest instanceof Step) {
      Step step = (Step)ntest;
      step.addPredicates(pp);
      RESULT = (Step)ntest;
    } else {
      RESULT = new Step(Axis.CHILD,
        parser.findNodeType(Axis.CHILD, ntest), pp);
    }
  :}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
  {: RESULT = new Step(axis.intValue(),
parser.findNodeType(axis.intValue(), ntest), pp);

| AxisSpecifier:axis NodeTest:ntest
{| : RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);

| AbbreviatedStep:abbrev
{| : RESULT = abbrev;

AxisSpecifier ::= AxisName:an DCOLON
{| : RESULT = an; |

| ATSIGN
{| : RESULT = new Integer(Axis.ATTRIBUTE); |

AxisName ::= ANCESTOR
{| : RESULT = new Integer(Axis.ANCESTOR); |

| ANCESTORORSELF
{| : RESULT = new Integer(Axis.ANCESTORORSELF); |

| ATTRIBUTE
{| : RESULT = new Integer(Axis.ATTRIBUTE); |

| CHILD
{| : RESULT = new Integer(Axis.CHILD); |

| DESCENDANT
{| : RESULT = new Integer(Axis.DESCENDANT); |

| DESCENDANTORSELF
{| : RESULT = new Integer(Axis.DESCENDANTORSELF); |

| FOLLOWING
{| : RESULT = new Integer(Axis.FOLLOWING); |

| FOLLOWINGSIBLING
{| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); |

| NAMESPACE
{| : RESULT = new Integer(Axis.NAMESPACE); |

| PARENT
{| : RESULT = new Integer(Axis.PARENT); |
| PRECEDING  
{ : RESULT = new Integer(Axis.PRECEDING); : } |

| PRECEDINGSIBLING  
{ : RESULT = new Integer(Axis.PRECEDINGSIBLING); : } |

| SELF  
{ : RESULT = new Integer(Axis.SELF); : } |

AbbreviatedStep ::= DOT  
{ : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : } |

| DDOT  
{ : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : } |

FilterExpr ::=  PrimaryExpr:primary  
{ : RESULT = primary; : } |

| PrimaryExpr:primary Predicates:pp  
{ : RESULT = new FilterExpr(primary, pp); : } |

PrimaryExpr ::= VariableReference:vr  
{ : RESULT = vr; : } |

| LPAREN Expr:ex RPAREN  
{ : RESULT = ex; : } |

| Literal:string  
{ :  

/*  
* If the string appears to have the syntax of a QName, store  
* namespace info in the literal expression. This is used for  
* element-available and function-available functions, among  
* others. Also, the default namespace must be ignored.  
*/  
String namespace = null;  
final int index = string.lastIndexOf(’:’);  

if (index > 0) {  
    final String prefix = string.substring(0, index);  
    namespace = parser._symbolTable.lookupNamespace(prefix);  
}  
RESULT = (namespace == null) ? new LiteralExpr(string)  
    : new LiteralExpr(string, namespace);  
: | INT:num
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
    RESULT = new RealExpr(value);
} else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}
if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

FunctionCall := FunctionName:fname LPAREN RPAREN

| REAL: num |
| FunctionCall: fc |

VariableReference ::= DOLLAR VariableName: varName

// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}
if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

FunctionCall := FunctionName:fname LPAREN RPAREN
if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| { |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) |
RESULT = new ConcatCall(fname, argl);

} else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

} else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

} else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new.StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
;

NonemptyArgumentList ::= Argument:arg
{: 
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    :}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: 
    RESULT = fname;
}
VariableName ::= QName: vname
{: RESULT = vname; :}

Argument ::= Expr: ex
{: RESULT = ex; :}

NodeTest ::= NameTest: nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal: l RPAREN
{: QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
   new NameCall(name),
   new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{: RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
{: RESULT = null; :}

| QName: qn
{: RESULT = qn; :}

QName ::= QName: qname
{: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}
| MOD |
| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |

| FOLLOWING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE |
| : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT |
| : RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |

| PRECEDINGSIBLING |
| : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); : |

| SELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("self"); : |

| ID |
| : RESULT = parser.getQNameIgnoreDefaultNs("id"); : |
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup

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 */

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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Execute the proprietary document-location() function, which returns
a node set of documents.
@xsl.usage advanced

Found in path(s):
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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$Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $

@author Jacek Ambroziak
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
     * If symbol is not followed by `::` or `(`, then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is `::` or `(`
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == '}'
               ? newSymbol(sym.QNAME, yytext())
               : newSymbol(ss, sym.QNAME, yytext()));
    }
}
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.STAR);
}
return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%

%eofval{
    return newSymbol(sym.EOF);
%eofval

%yylexthrow{
Exception

%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005A|u0061-u007A|u0030-u0039|u00C0-u00D6|u0300-u0345|u0460-u0461|u0591-u05A1|u05A3-u05B9|u05B3-
05B9|u0621-u064A|u064B-u064D|u0650-u0652|u0670-u0672|u00A0-u00FF|u0370-
0372|u0374-u037F|u0383-u039F|u03A0-u03BF|u03C0-u03CF|u03D0-u03ED|u03F3-u03F8|u0400-u040E|u04F0-u04F5|u0543-
0549|u0570-u0572|u0580-u0586|u0591-u05B9|u0593-u0599|u059C-u059F|u05A8-
05B0|u05B3-u05B7|u05C3-u05C7|u05C9-u05CE|u05D0-u05D6|u05D8-u05DF|u05E0-
05E3|u05F0-u05F8|u0602-u060A|u060C-u0610|u0612-u0614|u0616-u0619|u061B-
061D|u0629-u0639|u0650-u0652|u0654-u0656|u0658-u065A|u0662-
0666|u0669-u066B|u066D-u0672|u0674-u0676|u0678-u067A|u067C-
067E|u0680-u0684|u0686-u0688|u068A-u068C|u0690-u0692|u0694-
0696|u0698-u069A|u069C-u069E|u06A0-u06A2|u06A4-u06A6|u06A8-
06AE|u06B0-u06B2|u06B4-u06B6|u06B8-u06BA|u06BE-u06C0|u06D6-
06D8|u06DA-u06DE|u06F0-u06F8|u06FA-u06FC|u06F8-u06FA|u06FE-
06FF]

Ideographic=[u4E00-u9FA5]

CombiningChar=[u0300-u0345|u0360-u0362|u0364-u0365|u0367-u0369|u0370-
0372|u0374-u037F|u0383-u039F|u03A0-u03BF|u03C0-u03CF|u03D0-u03ED|u03F3-
03F8|u0400-u040E|u04F0-u04F5|u0543-u0549|u0570-u0572|u0580-
0586|u0591-u05B9|u0593-u0599|u059C-u059F|u05A8-u05B0|u05B3-
05B7|u05C3-u05C7|u05C9-u05CE|u05D0-u05D6|u05D8-u05DF|u05E0-
05E3|u05F0-u05F8|u0602-u060A|u060C-u0610|u0612-u0614|u0616-
0619|u061B-u061D|u0629-u0639|u0650-u0652|u0654-u0656|u0658-
065A|u0662-u0666|u0669-u066B|u0674-u0676|u0678-u067A|u067C-
067E|u0680-u0684|u0686-u0688|u068A-u068C|u0690-u0692|u0694-
0696|u0698-u069A|u069C-u069E|u06A0-u06A2|u06A4-u06A6|u06A8-
06AE|u06B0-u06B2|u06B4-u06B6|u06B8-u06BA|u06BE-u06C0|u06D6-
06D8|u06DA-u06DE|u06F0-u06F8|u06FA-u06FC|u06F8-u06FA|u06FE-
06FF]
Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0B7E-\u0B7F\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0EFD-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}"-_"([NCNameStartChar])({NCNameChar})*

NCNameChar=({Letter}|{Digit}|"-_"|{CombiningChar}|[Extender]|{NCNameStartChar})

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u2FFD\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF] | \u005F |({HighSurrogate}{LowSurrogate}) |{LowSurrogate}

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                      { return disambiguateStar(); } 
"/"                      { return newSymbol(sym.SLASH); } 
"+"                      { return newSymbol(sym.PLUS); } 
"-"                      { return newSymbol(sym.MINUS); } 
"div"                    { return disambiguateOperator(sym.DIV); } 
"mod"                    { return disambiguateOperator(sym.MOD); } 
"::"                     { return newSymbol(sym.DCOLON); } 
","                      { return newSymbol(sym.COMMA); } 
"@"                      { return newSymbol(sym.ATSIGN); } 
".."                     { return newSymbol(sym.DDOT); } 
"\"                      { return newSymbol(sym.VBAR); } 
"$"                      { return newSymbol(sym.DOLLAR); } 
"//"                     { return newSymbol(sym.DSLASH); } 
"="                      { return newSymbol(sym.EQ); } 
"!="                     { return newSymbol(sym.NE); } 
"<"                      { return newSymbol(sym.LT); } 
">"                      { return newSymbol(sym.GT); } 
"<="                     { return newSymbol(sym.LE); } 
">="                     { return newSymbol(sym.GE); } 
"id"                     { return disambiguateAxisOrFunction(sym.ID); } 
"key"                    { return disambiguateAxisOrFunction(sym.KEY); } 
"text()"                 { return newSymbol(sym.TEXT); } 
"text"+[ 
\n\n\n]+"()"  { return newSymbol(sym.TEXT); } 
"node()"                 { return newSymbol(sym.NODE); } 
"node"+[ 
\n\n\n]+"()"  { return newSymbol(sym.NODE); } 
"comment()"              { return newSymbol(sym.COMMENT); } 
"comment"+[ 
\n\n\n]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[\n\n\n]+("" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ANNOT); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\" { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\' { return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
(Digit)+ { return newSymbol(sym.INT, new Long(yytext())); }
(Digit)+(".[Digit]")? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
({NCName}:)?({NCName}) { return newSymbol(sym.QNAME, yytext()); }
(({NCName}:)?)*"@*" { return newSymbol(sym.QNAME, yytext()); }
[ \n\n\n] /* ignore white space. */
.
{ throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

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*/
/*
$Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
* Major version number.
* Version number. This changes only when there is a
  * significant, externally apparent enhancement from
  * the previous release. ‘n’ represents the n'th
  * version.
  *
  * Clients should carefully consider the implications
  * of new versions as external interfaces and behaviour
  * may have changed.
  */
public static final int VERSION = @version.VERSION@;

/**
* Release Number.
* Release number. This changes when:
  * - a new set of functionality is to be added, eg,
  *   implementation of a new W3C specification.
  * - API or behaviour change.
  * - its designated as a reference release.
  */
public static final int RELEASE = @version.RELEASE@;

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
  * drop applied to a specific release and contains
  * fixes for defects reported. It maintains compatibility
  * with the release and contains no API changes.
  * When missing, it designates the final and complete
  * development drop for a release.
  */
public static final int MAINTENANCE = @version.MINOR@;

/**
* Development Drop Number.
* Optional identifier designates development drop of
  * a specific release. D01 is the first development drop
  * of a new release.
  *
  * Development drops are works in progress towards a
  * completed, final release. A specific development drop
  * may not completely implement all aspects of a new
  * feature, which may take several development drops to
  * complete. At the point of the final drop for the
  * release, the D suffix will be omitted.
  *
  * Each ‘D’ drops can contain functional enhancements as
  * well as defect fixes. ‘D’ drops may not be as stable as
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[D/</B>nn]"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT + " " + LANGUAGE + " v.
 +" + RE Lease + "."
 + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT)
 : ("" + MAINTENANCE));

}
/*
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  18717

jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXTCSource.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/axes/AttributeIterator.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionArrayIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionNode.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/PathExpression.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSetExpression.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/Node.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CompiledStylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/stylesheet/StylesheetImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/stylesheet/StyleFacet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/stylesheet/Style.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/NodeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/DecimalFormatting.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/transformer/XalanTransformState.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePsuedo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessages_hu.java
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1.1275 pyasn1 0.3.7

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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 serialization 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 serialize 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:

```
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`):
Part of the power of ASN.1 comes from its serialization features. You can serialize 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 serialized 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
```

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())
>>> print(record.prettyPrint())
Record:
id=123
room=321
```

With ASN.1 design, serialization codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialized 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://pyasn1.sourceforge.net), 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://pyasn1.sourceforge.net/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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Additional -

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File:  PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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0.2.gitd0a45fe.module+el8.3.0+8221+97165c3f

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/*
 *
 */
* @(#)file SimpleMBean.java
* @(#)author Sun Microsystems, Inc.
* @(#)version 4.8
* @(#)lastedit 03/07/15
*
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* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/examples/MonitorMBean/SimpleMBean.java

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# @(#)author Sun Microsystems, Inc.
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#

---------------------------------------------------------------------------
Java(TM) Management Extensions (JMX(TM)) 1.2.1 Release Notes
---------------------------------------------------------------------------

These Release Notes contain important product notes and list known restrictions in Java Management Extensions (JMX) 1.2.1. Details of workarounds to known bugs are given where possible. In cases where there are differences between these Release Notes and the JMX documentation, the information in these Release Notes supersedes that in the documentation.

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1) JMX 1.2.1 Release Information
===========================================================================

I. Description
~~~~~~~~~~~~~~

Version 1.2.1 of the JMX Reference Implementation is an update of version 1.2, which provides some important bug fixes. It also implements the Errata for the 1.2 Maintenance Release of the Specification, which were published in July 2003.

The changes between versions 1.2 and 1.2.1 of the JMX Reference Implementation, as defined by the Errata, are as follows:

- Class loader repository can now contain additional class loaders
- Illegal identifiers no longer produce exceptions
- Notification source rewriting has been clarified
- Inconsistency between the specification document, the API
documentation, and the RI regarding currencyTimeLimit has been limited
- Severity values for ModelMBeanNotificationInfo have been clarified
- Optional Model MBean fields have been clarified
- API documentation for getDomains() method of MBeanServer interface
corrected
- Excessive type constraints have been removed from the relation service
documentation

For more information about these changes, see the document
"Errata for JMX Specification, version 1.2" (2003/07/02), which
is downloadable from
http://jcp.org/aboutJava/communityprocess/final/jsr003/index3.html

Note that the JMX API Javadoc bundled with this Reference
Implementation reflects the Errata, and hence differs slightly
from the Javadoc in the JMX 1.2 Specification.

II. Operating Environment
~~~~~~~~~~~~~~~~~~~~~~~~~~

The binary package was built using J2SE 1.4.2 (build 1.4.2-b28).

Testing was performed on the following platforms:

- Solaris 9 operating environment, SPARC processor, with J2SE 1.3.1 and J2SE 1.4.2.
- Redhat Linux 9, with J2SE 1.4.2.

III. Product Restrictions
~~~~~~~~~~~~~~~~~~~~~~~~

The following is a list of known restrictions in this release.

1) BugID 4909536

The MBean server's introspection code, which analyses Standard
MBean interfaces to convert them into attributes and
operations, will keep a reference to the last class
introspected even after the introspection is completed.
Therefore, the class and its class loader cannot be garbage
collected.
2) JMX 1.2 Release Information
================================

The following information is directly extracted from the release notes that accompanied version 1.2 of the JMX Reference Implementation.

I. JMX Tracing
~~~~~~~~~~~~~~

Traces in the JMX implementation are based on the J2SE logging capability (provided by classes in the java.util.logging package). The JMX implementation uses a set of Loggers for sending traces. All Loggers are contained in the javax.management namespace, which corresponds to the name of the root package hosting all public JMX interfaces.

The list below shows the Logger objects used in this implementation and their corresponding category of activity.

<table>
<thead>
<tr>
<th>Logger Name</th>
<th>Information Logged</th>
</tr>
</thead>
<tbody>
<tr>
<td>javax.management.mbeanserver</td>
<td>Information about the MBean Server</td>
</tr>
<tr>
<td>javax.management.mlet</td>
<td>Information from an MLet service</td>
</tr>
<tr>
<td>javax.management.monitor</td>
<td>Information from a monitor</td>
</tr>
<tr>
<td>javax.management.timer</td>
<td>Information from a timer</td>
</tr>
<tr>
<td>javax.management.notification</td>
<td>Information from the notification mechanism</td>
</tr>
<tr>
<td>javax.management.relation</td>
<td>Information from the Relation Service</td>
</tr>
<tr>
<td>javax.management.modelmbean</td>
<td>Information from the Model MBean components</td>
</tr>
<tr>
<td>javax.management.misc</td>
<td>Information sent from any other class</td>
</tr>
</tbody>
</table>

The following log levels are used in JMX:

<table>
<thead>
<tr>
<th>JMX log level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level.FINEST</td>
<td>Used to print debugging traces (useful for diagnosing the JMX implementation)</td>
</tr>
<tr>
<td>Level.FINER</td>
<td>Used to print information traces</td>
</tr>
<tr>
<td>Level.SEVERE</td>
<td>Used to notify of error conditions</td>
</tr>
</tbody>
</table>
NOTE: The JMX 1.2 tracing facility is based on java.util.logging, which is only available in J2SE 1.4. The JMX 1.2 tracing facility can still be run with earlier versions of the JDK (1.3), but in this case the JMX traces will run in a deprecated mode, and will not be available by default.

Using JMX Trace with JDK 1.3
----------------------------

When running the JMX technology on JDK 1.3, you can still get the traces by using a Sun proprietary API:

com.sun.jmx.trace.TraceTags defines 3 level of traces:

com.sun.jmx.trace.TraceTags.LEVEL_ERROR
com.sun.jmx.trace.TraceTags.LEVEL_TRACE
com.sun.jmx.trace.TraceTags.LEVEL_DEBUG

com.sun.jmx.trace.TraceImplementation defines a destination for JMX traces that can be controlled by two system properties:

com.sun.jmx.trace.level=ERROR|TRACE|DEBUG (default is ERROR) lets you define the trace level.

com.sun.jmx.trace.file=<filename> lets you define a file in which the traces should be written. If this property is not defined, the traces, when switched on, will be printed on System.err.

To switch on the traces, you need to:

* Set the com.sun.jmx.trace.level and/or com.sun.jmx.trace.file properties if you want to override the default settings. You can set these properties either by using the System.setProperty(), method or by specifying their value at the Java command line.

* call one of the two following static methods:

- com.sun.jmx.trace.TraceImplementation.init(); activates the traces using the com.sun.jmx.trace.level and com.sun.jmx.trace.file properties.

- com.sun.jmx.trace.TraceImplementation.init(int level); Switch on the traces using the com.sun.jmx.trace.file property, with the given 'level'. Level must be one of:
II. Product Notes

The following are the major issues addressed in the JMX Specification maintenance release, v1.2:

1) New MBeanServer Superinterface

The MBeanServer interface in JMX 1.1 was not suitable for exposure to remote clients because it contained methods only appropriate for the exporter of the instrumentation and because it did not declare an appropriate exception for communication failures.

A new parent interface, javax.management.MBeanServerConnection, has been added.

2) New removeNotificationListener Methods

MBeanServer.removeNotificationListener has been updated to provide the same four-parameter methods as are available to addNotificationListener. This allows the removal of individual triples (listener, filter, handback).

In addition, a new interface, javax.management.NotificationEmitter, extends NotificationBroadcaster, adding a method to allow NotificationBroadcaster to remove specific triples.

3) Changes to the ObjectName class

The following enhancements have been made to the ObjectName class:

- Quoting mechanism for values
  A value in a key property list can be surrounded by quotes to avoid problems with special characters. See the API documentation generated by the Javadoc(TM) tool for the ObjectName class.

- Newline characters
  Newline characters ('\n') are not permitted in any part of an
ObjectName, unless they are represented in a quoted value with the sequence '\n'.

- Factory methods for creating object names
  Previously, object names could only be obtained by invoking one of the constructors. In JMX 1.2, four new getInstance() factory methods are provided to obtain object names. This allows an implementation to return the same ObjectName instance for the same arguments, and to return a private optimized subclass of ObjectName.

- ObjectName.equals
  The semantics of the ObjectName.equals() methods have been clarified when there is a property pattern present, as follows:
  * getKeyPropertyListString does not include any indication of whether the ObjectName is a property pattern
  * getCanonicalName includes a trailing ",*" if the ObjectName is a property pattern (or just "*" if there are no other properties)
  * equals compares the getCanonicalName values

- ObjectName implements QueryExp
  By implementing the QueryExp interface, queries can match ObjectNames to given ObjectName patterns by using the QueryExp.apply() method. This allows ObjectNames to be included in complex queries.

- ObjectName.isDomainPattern()
  A new method, isDomainPattern() is provided to determine whether the ObjectName is a pattern on the domain part.

- Clarified rules regarding characters
  The rules regarding which characters can be used in which circumstances have been clarified, as follows:
  * A domain can contain any character except colon (:)  
  * A key can contain any character except colon (:), asterisk (*), comma (,), equals (=), or query (?)  
  * An unquoted value can contain any character except colon (:), asterisk (*), comma (,), equals (=), or query (?)  
  * A quoted value can contain any character provided the quoting conventions are followed

5) Class Loading and Naming

The following enhancements have been made to class loading and naming:
  - MBeanInfo.getClassName clarified
- MBeanServer.isInstanceOf clarified
- RoleInfo no longer performs checks on the MBean class names it is given. This check is now done on creation of a relation instance, using the MBeanServer.isInstanceOf method
- Class Loader Repository (CLR) enhanced:
  * New marker interface, javax.management.loading.PrivateClassLoader
  * Risk of deadlock removed from MLet delegation
  * Class loaders in the CLR are now consulted in a specific order
- Every MBeanServer has its own CLR
- New MBeanServer methods to replace the deserialize() methods, that are now deprecated:
  * getClassLoaderFor()
  * getClassLoader()
  * getClassLoaderRepository()

6) MBean Access Control

The JMX 1.2 specification allows administrators to control access to the MBeanServer and to individual MBean APIs. This new security is provided by mechanisms present in the Java 2 platform security architecture and the Java Authentication and Authorization Service (JAAS).

MBeanServer access control is provided by the class MBeanServerPermission, an extension of java.security.BasicPermission, that was introduced in JMX 1.1.

Access to MBeans is controlled by the new MBeanPermission class, which also extends java.security.Permission.

Another new class, MBeanTrustPermission, extending java.security.BasicPermission, verifies that only MBeans from trusted codebases register with an MBeanServer.

7) User-Supplied Factory for MBeanServer Instances

A new mechanism has been introduced to specify how MBeanServer objects are instantiated by the MBeanServerFactory.

8) MBeanInfo Enhancements

The following enhancements have been made to the MBean*Info classes:
- MBean*Info classes implement equals(object).
Each of the MBean*Info classes overrides the
Object.equals(object) method to compare for equality rather than
identity. This is useful because JMX allows an MBean to change
its MBeanInfo at any time. A remote client can test whether
this has happened by comparing the result of
MBeanServer.getMBeanInfo against a previous value.

- MBeanConstructorInfo does not have to be exhaustive.
If you use createMBean to construct an MBean with a given
constructor, it is not an error for that constructor not to be
in the new MBean's MBeanConstructorInfo array returned by
getMBeanInfo().

- MBean*Info constructors check for valid Java identifiers:
  * In MBeanAttributeInfo, MBeanOperationInfo, and
    MBeanParameterInfo "name" must be a syntactically valid Java
    identifier and "type" must be a syntactically valid Java class
    name
  * In MBeanInfo, "className" must be a syntactically valid Java
    class name
  * In MBeanConstructorInfo and MBeanNotificationInfo, "name" must
    be a syntactically valid Java class name

If these conditions are not met, the constructors throw
IllegalArgumentException.

9) Notification Enhancements

The class NotificationBroadcasterSupport has a new protected
method, handleNotification(), which is called for each listener
registered with the NotificationBroadcaster. It can be overridden
in a subclass to customize notification delivery.

10) Timer Service Enhancements

The following enhancements have been made to the Timer services:

- Modified behavior of the Timer.addNotification method
  When the specified time for a notification has already passed,
  addNotification behaves as if the time specified is the current
time, rather than throwing an exception. This reduces risks when
scheduling notifications for the very near future.

- TimerNotification Class
  The constructor of the TimerNotification class is now public,
allowing user code to construct notifications.

- Periodic Notification
The default periodic notification behavior in JMX 1.2 is fixed-delay execution, but fixed-rate execution can now be specified explicitly.

11) Monitor Service

The Monitor class has been extended to allow the monitoring of the same attribute in several MBeans. The Monitor class and the MonitorMBean interface have the following new methods:
- getObservedObjects()
- addObserver(ObjectName)
- removeObserver(ObjectName)
- containsObserver(ObjectName)

The CounterMonitor class and the CounterMonitorMBean interface have the following new methods:
- setInitThreshold(Number)
- getInitThreshold()
- getThreshold(ObjectName)
- getDerivedGauge(ObjectName)
- getDerivedGaugeTimeStamp(ObjectName)

NOTE: The ObjectName parameter is now required in the getThreshold(), getDerivedGauge(), and getDerivedGaugeTimeStamp() methods as these methods without parameters are now deprecated.

The GaugeMonitor and StringMonitor classes also have new methods:
- getDerivedGauge(ObjectName)
- getDerivedGaugeTimeStamp(ObjectName)

12) Relation Service

The RoleInfo constructor of the javax.management.relation.RoleInfo class no longer performs any checks on the class name it is given. This makes sense given that a DynamicMBean can return any string as the class name in its MBeanInfo, not necessarily an existent Java class.

On creation of a relation instance, the relation service checks that each MBean linked is an instance of the class name in the corresponding RoleInfo, as determined by MBeanServer.isInstanceOf.
13) Open MBeans

Open MBeans become mandatory in JMX 1.2.

14) MLets

The following enhancements have been made to MLets:

- The behavior of MLet delegation to the Class Loader Repository is now specified explicitly. It differs from the former behavior in that only loaders preceding the MLet in the CLR are delegated to. This change was introduced to avoid a deadlock possibility.

- The MLet class now implements the Externalizable interface. The methods readExternal and writeExternal already existed in previous releases, so this is logical. Implementations are not required to support these methods, and the reference implementation does not support them.

- The method MLet.check is exposed to allow subclasses of MLet to implement caching and versioning.

15) Serial Compatibility with JMX 1.0

JMX 1.1 changed the serial form of several classes in JMX 1.0. It introduced a property jmx.serial.form to allow code to continue to use the old form. Independent implementations, however, are not required to support this feature.

16) Calling getters and setters Using invoke

In JMX 1.2, it is forbidden to call getters and setters via invoke. Previously, an implementation was free to choose whether or not to allow this.

However, if the property jmx.invoke.getters does not have an empty value, the code forbidding calling getters and setters through invoke is disabled.

17) Retrieving domains in MBeanServer

A new MBeanServer method, getDomains(), has been introduced.
18) Standard MBeans

The following enhancements have been made to standard MBeans:

- Clarified rules for deriving NameMBean from Name.
  In JMX 1.2, if the implementation class of a standard MBean is some.package.Name then the management interface must be some.package.NameMBean.
- Hybrid of Standard and Dynamic MBeans.
  A new class, javax.management.StandardMBean, has been added to remove the need for a fixed relationship between the implementation class of the standard MBean and its management interface. The StandardMBean class implements the DynamicMBean interface.

19) InvocationHandler for MBean Proxies

An implementation of the java.lang.reflect.InvocationHandler interface has been added in JMX 1.2. The new javax.management.MBeanServerInvocationHandler class can be used to construct a proxy for an MBean, given its management interface, for convenience and type-safeness on invoke, getAttribute and setAttribute methods.

20) Model MBeans

The following enhancements have been made to model MBeans:
- Descriptor interface now extends Cloneable
- RequiredModelMBean implements MBeanRegistration
- ModelMBean.load called from preRegister not constructor
- Inconsistencies between the specification document and the API documentation generated by the Javadoc tool have been corrected

III. Product Restrictions

The following is a list of known restrictions in this release.

1) BugID 4752340

The Model MBean documentation reveals that when the descriptor for an attribute specifies a getMethod X, the method to be invoked is
not necessarily called X. Instead, it is the method whose ModelMBeanOperationInfo specifies a name of X in its descriptor.

To avoid confusion, make sure you use the same name for the method and for the descriptor.

Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/RELEASE_NOTES.txt
No license file was found, but licenses were detected in source scan.

/*
 * @(#)file      BaseAgent.java
 * @(#)author    Sun Microsystems, Inc.
 * @(#)version   1.13
 * @(#)lastedit  03/07/15
 *
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Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*
 * @(#)file      Simple.java
 * @(#)author    Sun Microsystems, Inc.
 * @(#)version   4.8
 * @(#)lastedit  03/07/15
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Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/examples/MonitorMBean/Simple.java
Model MBean Example

1. Overview

This example shows how to implement a simple agent application that uses the Model MBean defined in the JMX specification.
The agent in this example shows the use of a Model MBean to manage an application bean, named "TestBean". It also demonstrates how to have attributes in the same ModelMBean supported by methods on different objects.

2. File List

This example is based on the following source files:

* ModelAgent.java:
  - Creates an MBean server.
  - Registers a Model MBean in the MBean server.
  - Configures the Model MBean in order to manage two simple application beans called "TestBean" and "TestBeanFriend".
  - It registers an object of class "TestBeanAttributeChangeListener" as listener to all notifications emitted when the attribute "State" of the "TestBean" changes.
  - It performs management operations on application beans using the Model MBean.

* TestBeanAttributeChangeListener.java:
  - Implements the javax.management.NotificationListener interface. It receives the attribute change notifications emitted by the Model MBean when the attribute "State" of the "TestBean" changes.

* TestBean.java:
  - Simple definition of a Bean which is managed by a ModelMBean.

* TestBeanFriend.java:
  - Simple definition of a Bean which is managed by a ModelMBean. It implements the same methods as "TestBean". It is used by the ModelAgent test program to illustrate and demonstrate how to have attributes in the same ModelMBean supported by methods on different objects.

3. Building and Running the Example

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 SDK. In addition, your CLASSPATH must also contain the JMX reference implemen-
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Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-
  bin/examples/Relation/SimpleStandardMBean.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)file SimpleRelationType.java
* @(#)author Sun Microsystems, Inc.
* @(#)version 1.11
* @(#)lastedit 03/07/15
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Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-
  bin/examples/Relation/SimpleRelationType.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)file StandardObservedObject.java
* @(#)author Sun Microsystems, Inc.
* @(#)version 4.9
* @(#)lastedit 03/07/15
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Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-
  bin/examples/MonitorMBean/StandardObservedObject.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)file README
* @(#)author Sun Microsystems, Inc.
* @(#)version 1.8
* @(#)date 03/07/15
* */
Standard MBean Example

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

1. Overview

This example shows how to write a standard MBean and manage it through a simple JMX agent application:

- Develop a standard MBean that complies with the design patterns of the JMX instrumentation level

- Develop a simple JMX agent for exercising the MBean:
  - Initialize the MBean server
  - Create and register the MBean in the MBean server
  - Get and set attributes, invoke operations on the MBean
  - Try to invoke MBean methods not exposed for management

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

2. File List

This example uses the following source files:

* SimpleStandard.java:
  - A standard MBean

* SimpleStandardMBean.java:
  - The management interface of the SimpleStandard class

* StandardAgent.java:
  - Creates an MBean server
  - Registers a standard MBean in the MBean server
  - Gets information on the management interface of the MBean
  - Invokes MBean methods exposed for management with success
and tries to invoke methods not exposed for management without success

3. Building and Running the Example

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX reference implementation jar file (jmxri.jar), as well as the current directory (.).

These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

To compile the example, type the following commands:

```
cd examples/StandardMBean/
javac *.java
```

To run the example using the classes you have just built, type the following command:

```
java StandardAgent
```

You then interact with the agent through the standard input and output in the window where it was launched. The StandardAgent class displays information about each management step and waits for user input before continuing.

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

/*
 * @(#)file      README
 * @(#)author    Sun Microsystems, Inc.
 * @(#)version   1.8
 * @(#)date      03/07/15
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Dynamic MBean Example

1. Overview

This example shows how to implement a dynamic MBean and manage it through a simple JMX agent application:

- Develop a dynamic MBean that implements the DynamicMBean interface and correctly exposes its management interface at runtime.

- Develop a simple JMX agent for exercising the MBean:
  . Initialize the MBean server
  . Add the dynamic MBean to the MBean server
  . Find the MBeans management interface
  . Get and set attributes, invoke operations on the MBean
  . Handle the response when trying to invoke methods not exposed for management

2. File List

This example is based on the following source files:

* SimpleDynamic.java:
  - A dynamic MBean

* DynamicAgent.java:
  - Creates an MBean server
  - Registers a dynamic MBean in the MBean server
  - Gets information on the management interface of the MBean
  - Invokes dynamic MBean methods exposed for management with success and tries to invoke methods not exposed for management without success

3. Building and Running the Example
To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX reference implementation jar file (jmxri.jar), as well as the current directory (.).

These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

To compile the example, type the following commands:

    cd examples/DynamicMBean/
    javac *.java

To run the example using the classes you have just built, type the following command:

    java DynamicAgent

You then interact with the agent through the standard input and output in the window where it was launched. The DynamicAgent class displays information about each management step and waits for user input before continuing.

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

/*
 * @(#)file      DynamicAgent.java
 * @(#)author    Sun Microsystems, Inc.
 * @(#)version   1.23
 * @(#)lastedit  03/07/15
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* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/examples/DynamicMBean/README
No license file was found, but licenses were detected in source scan.

/*
 * @(#)file    SimpleStandardMBean.java
 * @(#)author   Sun Microsystems, Inc.
 * @(#)version  1.11
 * @(#)lastedit 03/07/15
 *
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 */

Found in path(s):
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-
  bin/examples/StandardMBean/SimpleStandardMBean.java
No license file was found, but licenses were detected in source scan.

/*
 * @(#)file    StandardAgent.java
 * @(#)author   Sun Microsystems, Inc.
 * @(#)version  1.20
 * @(#)lastedit 03/07/15
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* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-
  bin/examples/StandardMBean/StandardAgent.java
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* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/StandardMBean.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/relation/InvalidRelationServiceException.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/relation/RoleList.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/timer/package-tree.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/monitor/class-use/MonitorSettingException.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/relation/RelationServiceNotRegisteredException.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/class-use/NotificationBroadcaster.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/AttributeChangeNotification.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/openmbean/class-use/InvalidKeyException.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/openmbean/class-use/CompositeData.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/class-use/MBeanServerConnection.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/NotificationEmitter.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/StringValueExp.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/class-use/MBeanTrustPermission.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/openmbean/SimpleType.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/monitor/package-use.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/openmbean/OpenMBeanParameterInfoSupport.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/monitor/Monitor.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/relation/class-use/RoleList.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/relation/class-use/RelationNotification.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/openmbean/package-use.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/modelmbean/class-use/XMLParseException.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/class-use/MBeanFeatureInfo.html
* /opt/cola/permits/1029890343_1626160518.75/0/jmx-1-2-1-ri-zip/jmx-1_2_1-bin/doc/api/java/management/ListenerNotFoundException.html
Open MBean Example

1. Overview

This example shows how to implement an open MBean and manage it through a simple JMX agent application:

- Develop a sample open MBean that uses some of the open data types and correctly exposes its management interface at runtime through
the OpenMBean*Info classes.

- Develop a simple JMX agent for exercising the open MBean:
  . Initialize the MBean server
  . Create and add the sample open MBean to the MBean server
  . Get and display the open MBean management information
  . Invoke some operations on the MBean

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

2. File List
-----------------------------------------------------------------------

This example is based on the following source files:

* SampleOpenMBean.java:
  - An open MBean

* OpenAgent.java:
  - Simple JMX agent for exercising the open MBean

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

3. Building and Running the Example
-----------------------------------------------------------------------

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX reference implementation jar file (jmxri.jar), as well as the JMX tools contributions jar file (jmxtools.jar) for the HTML adaptor class, and the current directory (.).

These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

To compile the example, type the following commands:

    cd examples/OpenMBean/
    javac *.java

To run the example using the classes you have just built, type the following command:

    java OpenAgent

You then interact with the agent through the standard input and output
in the window where it was launched. The OpenAgent class displays information about each management step and waits for user input before continuing.

```
/*
* @(#)file      SimpleDynamic.java
* @(#)author    Sun Microsystems, Inc.
* @(#)version   1.13
* @(#)lastedit  03/07/15
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```
<html>
<head>
<TITLE>Copyright Page for Sun Microsystems, Inc.</TITLE>
</head>
<body bgcolor=#FFFFFF TEXT=#000000 ALINK=#FF0000 VLINK=#551A8B LINK=#0000EE>

<TABLE BORDER=0 WIDTH="100%">
<TR>
<TD><IMG SRC="images/smi.logo.gif" ALT="Sun Microsystems, Inc" HEIGHT=43 WIDTH=120>&nbsp;</TD>
<TD ALIGN=right><A HREF="../index.html">
<B>JMX Agent and Instrumentation</B><BR>
<HR>
</A></TD>
</TR>
</TABLE>

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```

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* @(#)file    SimpleStandard.java
* @(#)author   Sun Microsystems, Inc.
* @(#)version  1.12
* @(#)lastedit 03/07/15
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* @(#)file    AgentListener.java
* @(#)author   Sun Microsystems, Inc.
* @(#)version  4.9
* @(#)lastedit 03/07/15
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Base Agent Example

1. Overview

This example shows how to implement a minimal agent application that
can be accessed through a Web browser.

2. File List

This example is based on the following source file:

* BaseAgent.java:
  - Creates an MBean server
  - Creates and registers an HTML adaptor server in the MBean server

3. Building and Running the Example

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX reference implementation (jmxri.jar) and toolkit (jmxtools.jar) jar files, as well as the current directory (.)

These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

To compile the example, type the following commands:

    cd examples/BaseAgent/
    javac *.java

To run the example using the classes you have just built, type the following command:

    java BaseAgent &

This JMX agent is now running on your machine. To manage the agent through a Web browser, load the following URL: http://localhost:8082/

You may also access this agent from any remote machine on the same network by connecting to this URL: http://<agentHostName>:8082/ (where <agentHostName> is the name or IP address of the machine where you launched the BaseAgent).

Please refer to the tutorial provided in this software bundle for further instructions about interacting with the JMX agent through the Web browser.
Monitor MBean Example

1. Overview

This example shows how to implement a simple agent application that uses the monitoring service defined in the JMX specification.

The agent in this example registers a monitor MBean which observes the number of MBeans registered in the MBean server.

In order to receive information from the monitor, the example also shows how to implement a notification listener with the JMX notification model.

2. File List

This example is based on the following source files:

* MonitorAgent.java:
- Creates an MBean server
- Registers a monitor MBean in the MBean server which sends out a notification when the number of registered MBeans exceeds a pre-defined threshold
- Registers many MBeans of class Simple
- Registers a standard MBean (StandardObservedObject) and then a dynamic MBean (DynamicObservedObject) each having an attribute representing the number of MBeans registered in the MBean server
- Declares a listener for the notifications emitted by the monitor MBean
- Unregisters all of the MBeans

* AgentListener.java:
  - Receives the notifications emitted by the monitor MBean

* Simple.java:
  - A standard MBean

* SimpleMBean.java:
  - The management interface of the MBean Simple

* StandardObservedObject.java:
  - A standard MBean having an attribute representing the number of MBeans registered in the MBean server

* StandardObservedObjectMBean.java:
  - The management interface of the MBean StandardObservedObject

* DynamicObservedObject.java:
  - A dynamic MBean having an attribute representing the number of MBeans registered in the MBeanServer

3. Building and Running the Example

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX reference implementation jar file (jmxri.jar), as well as the current directory (.). These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

To compile the example, type the following commands:
To run the example using the classes you have just built, type the following command:

```
java MonitorAgent
```

You then interact with the agent through the standard input and output in the window where it was launched. The MonitorAgent class displays information about each management step and waits for user input before continuing.

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This README file describes how to build the JMX 1.2.1 sources.

The JMX 1.2.1 source delivery comes with a build.xml file written for Ant 1.5. Please download and install Apache Ant 1.5 from: http://ant.apache.org

Once you have set your PATH, ANT_HOME and JAVA_HOME variables as described in the Ant 1.5 installation procedure, you can build the JMX 1.2.1 sources:
* cd to the directory containing the build.xml file
* type: ant all

--

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/*
   * @(#)MonitorAgent.java
   * @(#)author Sun Microsystems, Inc.
   * @(#)version 1.23
   * @(#)lastedit 03/07/15
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  bin/examples/MonitorMBean/MonitorAgent.java
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/*
 * @(#)file      StandardObservedObjectMBean.java
 * @(#)author    Sun Microsystems, Inc.
 * @(#)version   4.8
 * @(#)lastedit  03/07/15
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 * @(#)lastedit  03/07/15
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Found in path(s):
Relation Service Example

1. Overview

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This example shows how to use the Relation Service:

- to handle relation types, i.e. metadata describing the roles that a relation of that type has to support:
  . Creation, either of simple relation types through the Relation Service, or of relation types created by the user and added into the Relation Service
  . Access
  . Deletion

- to handle relations, i.e. links between MBeans
  . Creation, either of relations not handled as MBeans and kept internally in the Relation Service, or relation MBeans,
  . Access, through the Relation Service for any relation, or direct access for relation MBean
  . Removal

- to perform queries to retrieve relations referencing a given MBean, or MBeans associated to a given MBean.

It also demonstrates the way the Relation Service maintains the consistency when MBeans referenced in relations are unregistered from the MBean server.

-----------------------------------------------------------------------
2. File List
-----------------------------------------------------------------------

This example uses the following source files:

* RelationAgent.java:
  - Creates an MBean server
  - Registers a Relation Service MBean in the MBean server
  - Registers some standard MBeans in the MBean server
  - Creates, access and removes relation types
  - Creates, access and removes relations
  - Performs queries on relations

* SimpleRelation.java:
  - A simple relation MBean class, to be used to create relation MBeans, first registered into the MBean server as MBeans, then added into the Relation Service as relations

* SimpleRelationMBean.java:
  - The management interface of the SimpleRelationMBean class

* SimpleRelationType.java:
- A simple relation type class, to be used to create a relation type to be added in the Relation Service. This is an alternative for having to create a relation type describing it each time, here an instance does it.

* SimpleStandard.java:
  - A standard MBean, to be used in relations

* SimpleStandardMBean.java:
  - The management interface of the SimpleStandard class

3. Building and Running the Example

To build and run this example, make sure that your PATH and CLASSPATH environment variables are correctly set to use the Java 2 platform. In addition, your CLASSPATH must also contain the JMX Reference implementation (jmxri.jar) jar files, as well as the current directory (.).

These instructions assume the classpath is set in an environment variable, though it may also be given on the command line with the -classpath option.

Copy the example source files to your working directory and type the following commands:

```
cd examples/Relation
javac *.java
```

To run the example using the classes you have just built, type the following command:

```
java RelationAgent
```

You then interact with the agent through the standard input and output in the window where it was launched. The RelationAgent class displays information about each management step and waits for user input before continuing.

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/*/ 
* @(#)file SimpleRelationMBean.java 
* @(#)author Sun Microsystems, Inc. 
* @(#)version 1.9 
* @(#)lastedit 03/07/15 
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/*/ 
* @(#)file RelationAgent.java 
* @(#)author Sun Microsystems, Inc. 
* @(#)version 1.17 
* @(#)lastedit 03/07/15 
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/*/ 
* @(#)file OpenAgent.java
1.1290 perl-file-temp 0.230.600-1.el8

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

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

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

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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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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
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Build-Jdk: 1.7.0_80
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Bundle-ManifestVersion: 2
Bundle-Description: JSR305 Annotations for Findbugs
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: org.jsr-305
Archiver-Version: Plexus Archiver

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    </goals>
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</project>

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1.1309 d3 3.5.6 on 4 Jul 2015

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1.1310 system-security-cryptography-pkcs
5.0.0.0

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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AES in libhcrypto

rijndael-alg-fst.c

version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)
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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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1.1315 rhnsd 5.0.35-
3.module+el8.1.0+3455+3ddf2832
1.1315.1 Available under license :

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```

1.1316 rubyzip 1.3.0

1.1316.1 Available under license:

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```ruby
#!/usr/bin/env ruby

$VERBOSE = true

require 'rubyunit'
require 'zip'
include Zip

Dir.chdir "test"
```
class AbstractInputStreamTest < RUNIT::TestCase
  # AbstractInputStream subclass that provides a read method

  TEST_LINES = [ "Hello world${/}",
    "this is the second line${/}",
    "this is the last line"]
  TEST_STRING = TEST_LINES.join
  class TestAbstractInputStream
    include AbstractInputStream
    def initialize(aString)
      @contents = aString
      @readPointer = 0
    end

    def read(charsToRead)
      retVal=@contents[@readPointer, charsToRead]
      @readPointer+=charsToRead
      return retVal
    end

    def produceInput
      read(100)
    end

    def inputFinished?
      @contents[@readPointer] == nil
    end
  end

  def setup
    @io = TestAbstractInputStream.new(TEST_STRING)
  end

  def test_gets
    assert_equals(TEST_LINES[0], @io.gets)
    assert_equals(TEST_LINES[1], @io.gets)
    assert_equals(TEST_LINES[2], @io.gets)
    assert_equals(nil, @io.gets)
  end

  def test_getsMultiCharSeperator
    assert_equals("Hell", @io.gets("l"))
    assert_equals("o world${/}this is the second l", @io.gets("d l"))
  end

  def test_each_line
    lineNumber=0
  end

def test_readlines
    assert_equals(TEST_LINES, @io.readlines)
end

def test_readline
    test_gets
    begin
        @io.readline
        fail "EOFError expected"
    rescue EOFError
    end
end

class ZipEntryTest < RUNIT::TestCase
    TEST_ZIPFILE = "someZipFile.zip"
    TEST_COMMENT = "a comment"
    TEST_COMPRESSED_SIZE = 1234
    TEST_CRC = 325324
    TEST_EXTRA = "Some data here"
    TEST_COMPRESSIONMETHOD = ZipEntry::DEFLATED
    TEST_NAME = "entry name"
    TEST_SIZE = 8432
    TEST_ISDIRECTORY = false

def test_constructorAndGetters
    entry = ZipEntry.new(TEST_ZIPFILE,
                          TEST_NAME,
                          TEST_COMMENT,
                          TEST_EXTRA,
                          TEST_COMPRESSED_SIZE,
                          TEST_CRC,
                          TEST_COMPRESSIONMETHOD,
                          TEST_SIZE)

    assert_equals(TEST_COMMENT, entry.comment)
    assert_equals(TEST_COMPRESSED_SIZE, entry.compressedSize)
    assert_equals(TEST_CRC, entry.crc)
    assert_equals(TEST_EXTRA, entry.extra)
    assert_equals(TEST_COMPRESSIONMETHOD, entry.compressionMethod)
    assert_equals(TEST_NAME, entry.name)

    assert_equals(TEST_COMMENT, entry.comment)
    assert_equals(TEST_COMPRESSED_SIZE, entry.compressedSize)
    assert_equals(TEST_CRC, entry.crc)
    assert_equals(TEST_EXTRA, entry.extra)
    assert_equals(TEST_COMPRESSIONMETHOD, entry.compressionMethod)
    assert_equals(TEST_NAME, entry.name)
def test_equality
  entry1 = ZipEntry.new("file.zip", "name", "isNotCompared", "something extra", 123, 1234, ZipEntry::DEFLATED, 10000)
  entry2 = ZipEntry.new("file.zip", "name", "isNotComparedXXX", "something extra", 123, 1234, ZipEntry::DEFLATED, 10000)
  entry3 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extra", 123, 1234, ZipEntry::DEFLATED, 10000)
  entry4 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extraXX", 123, 1234, ZipEntry::DEFLATED, 10000)
  entry5 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extraXX", 12, 1234, ZipEntry::DEFLATED, 10000)
  entry6 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extraXX", 12, 123, ZipEntry::DEFLATED, 10000)
  entry7 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extraXX", 12, 123, ZipEntry::STORED, 100000)
  entry8 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX", "something extraXX", 12, 123, ZipEntry::STORED, 100000)

  assert_equals(entry1, entry1)
  assert_equals(entry1, entry2)

  assert(entry2 != entry3)
  assert(entry3 != entry4)
  assert(entry4 != entry5)
  assert(entry5 != entry6)
  assert(entry6 != entry7)
  assert(entry7 != entry8)
  assert(entry7 != "hello")
  assert(entry7 != 12)
end

module IOizeString
  attr_reader :tell
def read(count = nil)
    @tell ||= 0
    count = size unless count
    retVal = slice(@tell, count)
    @tell += count
    return retVal
end

def seek(index, offset)
    @tell ||= 0
    case offset
        when IO::SEEK_END
            newPos = size + index
        when IO::SEEK_SET
            newPos = index
        when IO::SEEK_CUR
            newPos = @tell + index
        else
            raise "Error in test method IOizeString::seek"
    end
    if (newPos < 0 || newPos >= size)
        raise Errno::EINVAL
    else
        @tell = newPos
    end
end

def reset
    @tell = 0
end
end

class ZipLocalEntryTest < RUNIT::TestCase
    def test_readLocalEntryHeaderOfFirstTestZipEntry
        File.open(TestZipFile::TEST_ZIP3.zipName) { |file|
            entry = ZipEntry.readLocalEntry(file)
            assert_equal(0x2a27930f, entry.crc)
            assert_equal(480, entry.compressedSize)
            assert_equal(nil, entry.extra)
            assert_equal(ZipEntry::DEFLATED, entry.compressionMethod)
        }
    end
end
assert(! entry.isDirectory)
}
end

def test_readLocalEntryFromNonZipFile
  File.open("ziptest.rb") {
    [file]
    assert_equals(nil, ZipEntry.readLocalEntry(file))
  }
end

def test_readLocalEntryFromTruncatedZipFile
  zipFragment=""
  File.open(TestZipFile::TEST_ZIP2.zipName) { |f| zipFragment = f.read(12) } # local header is at least 30 bytes
  zipFragment.extend(IOizeString).reset
  entry = ZipEntry.new
  entry.readLocalEntry(zipFragment)
  fail "ZipError expected"
  rescue ZipError
end

def test_writeEntry
  entry = ZipEntry.new("file.zip", "entryName", "my little comment", "thisIsSomeExtraInformation", 100, 987654,
  ZipEntry::DEFLATED, 400)
  writeToFile("localEntryHeader.bin", "centralEntryHeader.bin", entry)
  entryReadLocal, entryReadCentral = readFromFile("localEntryHeader.bin", "centralEntryHeader.bin")
  compareLocalEntryHeaders(entry, entryReadLocal)
  compareCDirEntryHeaders(entry, entryReadCentral)
end

private
def compareLocalEntryHeaders(entry1, entry2)
  assert_equals(entry1.compressedSize   , entry2.compressedSize)
  assert_equals(entry1.crc              , entry2.crc)
  assert_equals(entry1.extra            , entry2.extra)
  assert_equals(entry1.compressionMethod, entry2.compressionMethod)
  assert_equals(entry1.name             , entry2.name)
  assert_equals(entry1.size             , entry2.size)
  assert_equals(entry1.localHeaderOffset, entry2.localHeaderOffset)
end

def compareCDirEntryHeaders(entry1, entry2)
  compareLocalEntryHeaders(entry1, entry2)
  assert_equals(entry1.comment, entry2.comment)
end

def writeToFile(localFileName, centralFileName, entry)
File.open(localFileName, "wb") { |f| entry.writeLocalEntry(f) }
File.open(centralFileName, "wb") { |f| entry.writeCDirEntry(f) }
end

def readFromFile(localFileName, centralFileName)
  localEntry = nil
cdirEntry = nil
  File.open(localFileName, "rb") { |f| localEntry = ZipEntry.readLocalEntry(f) }
  File.open(centralFileName, "rb") { |f| cdirEntry = ZipEntry.readCDirEntry(f) }
  return [localEntry, cdirEntry]
end

def readFromFile(localFileName, centralFileName)
  localEntry = nil
cdirEntry = nil
  File.open(localFileName, "rb") { |f| localEntry = ZipEntry.readLocalEntry(f) }
  File.open(centralFileName, "rb") { |f| cdirEntry = ZipEntry.readCDirEntry(f) }
  return [localEntry, cdirEntry]
end

def readFromFile(localFileName, centralFileName)
  localEntry = nil
cdirEntry = nil
  File.open(localFileName, "rb") { |f| localEntry = ZipEntry.readLocalEntry(f) }
  File.open(centralFileName, "rb") { |f| cdirEntry = ZipEntry.readCDirEntry(f) }
  return [localEntry, cdirEntry]
end

module DecompressorTests
  # expects @refText and @decompressor

  def test_readEverything
    assert_equals(@refText, @decompressor.read)
  end

  def test_readInChunks
    chunkSize = 5
    while (decompressedChunk = @decompressor.read(chunkSize))
      assert_equals(@refText.slice!(0, chunkSize), decompressedChunk)
    end
    assert_equals(0, @refText.size)
  end

  end

class InflaterTest < RUNIT::TestCase
  include DecompressorTests

  def setup
    @file = File.new("file1.txt.deflatedData", "rb")
    @refText="
    File.open("file1.txt") { |f| @refText = f.read }
    @decompressor = Inflater.new(@file)
  end

  def teardown
    @file.close
  end
end

class PassThruDecompressorTest < RUNIT::TestCase
  include DecompressorTests

  def setup
    @file = File.new("file1.txt.deflatedData", "rb")
    @refText="
    File.open("file1.txt") { |f| @refText = f.read }
    @decompressor = Inflater.new(@file)
  end

  def teardown
    @file.close
  end
end


TEST_FILE="file1.txt"
def setup
    @file = File.new(TEST_FILE)
    @refText=""
    File.open(TEST_FILE) { |f| @refText = f.read }
    @decompressor = PassThruDecompressor.new(@file, File.size(TEST_FILE))
end

def teardown
    @file.close
end
end

module AssertEntry
    def assertNextEntry(filename, zis)
        assertEntry(filename, zis, zis.getNextEntry.name)
    end

    def assertEntry(filename, zis, entryName)
        assert_equals(filename, entryName)
        assertEntryContentsForStream(filename, zis, entryName)
    end

    def assertEntryContentsForStream(filename, zis, entryName)
        File.open(filename, "rb") {
            [file]
            expected = file.read
            actual   = zis.read
            if (expected != actual)
                if (expected.length > 400 || actual.length > 400)
                    zipEntryFilename=entryName+".zipEntry"
                    File.open(zipEntryFilename, "wb") { |file| file << actual } fail("File '#{filename}' is different from '#{zipEntryFilename}'")
                else
                    assert_equals(expected, actual)
                end
            end
        }
    end

    def AssertEntry.assertContents(filename, aString)
        fileContents = ""
        File.open(filename, "rb") { |f| fileContents = f.read }
        if (fileContents != aString)
            if (expected.length > 400 || actual.length > 400)
                stringFile = filename + ".other"
                File.open(stringFile, "wb") { |f| f << aString }
            else
                assert_equals(fileContents, aString)
            end
        end
    end
end
fail("File '#{filename}' is different from contents of string stored in '#{stringFile}'")
  else
  assert_equals(expected, actual)
  end
end

def assertStreamContents(zis, testZipFile)
  assert(zis != nil)
  testZipFile.entryNames.each { |entryName|
    assertNextEntry(entryName, zis)
  }
  assert_equals(nil, zis.getNextEntry)
end

def assertTestZipContents(testZipFile)
  ZipInputStream.open(testZipFile.zipName) {
    |zis|
    assertStreamContents(zis, testZipFile)
  }
end

def assertEntryContents(zipFile, entryName, filename = entryName.to_s)
  zis = zipFile.getInputStream(entryName)
  assertEntryContentsForStream(filename, zis, entryName)
  ensure
    zis.close if zis
  end
end

class ZipInputStreamTest < RUNIT::TestCase
  include AssertEntry

  def test_new
    zis = ZipInputStream.new(TestZipFile::TEST ZIP2.zipName)
    assertStreamContents(zis, TestZipFile::TEST ZIP2)
    zis.close
  end

  def test_openWithBlock
    ZipInputStream.open(TestZipFile::TEST ZIP2.zipName) {
      |zis|
      assertStreamContents(zis, TestZipFile::TEST ZIP2)
    }
  end
end
def test_openWithoutBlock
  zis = ZipInputStream.open(TestZipFile::TEST_ZIP2.zipName)
  assertStreamContents(zis, TestZipFile::TEST_ZIP2)
end

def test_incompleteReads
  ZipInputStream.open(TestZipFile::TEST_ZIP2.zipName) {
    |zis|
    entry = zis.getNextEntry
    assert_equals(TestZipFile::TEST_ZIP2.entryNames[0], entry.name)
    assert zis.gets.length > 0
    entry = zis.getNextEntry
    assert_equals(TestZipFile::TEST_ZIP2.entryNames[1], entry.name)
    assert_equals(0, entry.size)
    assert_equals(nil, zis.gets)
    entry = zis.getNextEntry
    assert_equals(TestZipFile::TEST_ZIP2.entryNames[2], entry.name)
    assert zis.gets.length > 0
    entry = zis.getNextEntry
    assert_equals(TestZipFile::TEST_ZIP2.entryNames[3], entry.name)
    assert zis.gets.length > 0
  }
end

class TestFiles
  RANDOM_ASCII_FILE1  = "randomAscii1.txt"
  RANDOM_ASCII_FILE2  = "randomAscii2.txt"
  RANDOM_ASCII_FILE3  = "randomAscii3.txt"
  RANDOM_BINARY_FILE1 = "randomBinary1.bin"
  RANDOM_BINARY_FILE2 = "randomBinary2.bin"

  EMPTY_TEST_DIR      = "emptytestdir"

  ASCII_TEST_FILES  = [ RANDOM_ASCII_FILE1, RANDOM_ASCII_FILE2, RANDOM_ASCII_FILE3 ]
  BINARY_TEST_FILES = [ RANDOM_BINARY_FILE1, RANDOM_BINARY_FILE2 ]
  TEST_DIRECTORIES  = [ EMPTY_TEST_DIR ]
  TEST_FILES        = [ ASCII_TEST_FILES, BINARY_TEST_FILES, EMPTY_TEST_DIR ].flatten!

  def TestFiles.createTestFiles(recreate)
    if (recreate ||
      ! (TEST_FILES.inject(true) { |accum, element| accum && File.exists?(element) })))

      ASCII_TEST_FILES.each_with_index {
        |filename, index|
        createRandomAscii(filename, 1E4 * (index+1))
    end
  end
end
BINARY_TEST_FILES.each_with_index { |filename, index|
  createRandomBinary(filename, 1E4 * (index+1))
}

ensureDir(EMPTY_TEST_DIR)
end
end

private
def TestFiles.createRandomAscii(filename, size)
  File.open(filename, "wb") { |file|
    while (file.tell < size)
      file << rand
    end
  }
end
def TestFiles.createRandomBinary(filename, size)
  File.open(filename, "wb") { |file|
    while (file.tell < size)
      file << rand.to_a.pack("V")
    end
  }
end
def TestFiles.ensureDir(name)
  if File.exists?(name)
    return if File.stat(name).directory?
    File.delete(name)
  end
  Dir.mkdir(name)
end
end

# For representation and creation of
# test data
class TestZipFile
  attr_accessor :zipName, :entryNames, :comment

  def initialize(zipName, entryNames, comment = "")
    @zipName=zipName
    @entryNames=entryNames
  end
end
@comment = comment
end

def TestZipFile.createTestZips(recreate)
  files = Dir.entries('..
  if (recreate ||
    ! (files.index(TEST_ZIP1.zipName) &&
    files.index(TEST_ZIP2.zipName) &&
    files.index(TEST_ZIP3.zipName) &&
    files.index(TEST_ZIP4.zipName) &&
    files.index("empty.txt") &&
    files.index("short.txt") &&
    files.index("longAscii.txt") &&
    files.index("longBinary.bin").)
  raise "failed to create test zip '#{TEST_ZIP1.zipName}'" unless
  system("zip '#{TEST_ZIP1.zipName} ziptest.rb")
  raise "failed to remove entry from '#{TEST_ZIP1.zipName}'" unless
  system("zip '#{TEST_ZIP1.zipName} -d ziptest.rb")

  File.open("empty.txt", "w") {}
  File.open("short.txt", "w") { |file| file << "ABCDEF" }
  ziptestTxt="
  File.open("ziptest.rb") { |file| ziptestTxt=file.read }
  File.open("longAscii.txt", "w") { |file|
    while (file.tell < 1E5)
      file << ziptestTxt
    end
  }
  testBinaryPattern="
  File.open("empty.zip") { |file| testBinaryPattern=file.read }
  testBinaryPattern *= 4

  File.open("longBinary.bin", "wb") {
    file|
    while (file.tell < 3E5)
      file << testBinaryPattern << rand
    end
  }
  raise "failed to create test zip '#{TEST_ZIP2.zipName}'" unless
  system("zip '#{TEST_ZIP2.zipName} #{TEST_ZIP2.entryNames.join(' ')}")

  # without bash system interprets everything after echo as parameters to
  # echo including | zip -z ...
  raise "failed to add comment to test zip '#{TEST_ZIP2.zipName}'" unless
  system("bash -c \"echo '#{TEST_ZIP2.comment} | zip -y '#{TEST_ZIP2.zipName}\''\")
raise "failed to create test zip '#{TEST_ZIP3.zipName}'" unless system("zip #{TEST_ZIP3.zipName} #{TEST_ZIP3.entryNames.join(' ')}")
raise "failed to create test zip '#{TEST_ZIP4.zipName}'" unless system("zip #{TEST_ZIP4.zipName} #{TEST_ZIP4.entryNames.join(' ')}")
end
rescue
raise $!.to_s + "\n\nziptest.rb requires the Info-ZIP program 'zip' in the path\n" + "to create test data. If you don't have it you can download\n" + "the necessary test files at http://sf.net/projects/rubyzip."
end

TEST_ZIP1 = TestZipFile.new("empty.zip", [])
TEST_ZIP2 = TestZipFile.new("4entry.zip", %w{ longAscii.txt empty.txt short.txt longBinary.bin}, "my zip comment")
TEST_ZIP3 = TestZipFile.new("test1.zip", %w{ file1.txt })
TEST_ZIP4 = TestZipFile.new("zipWithDir.zip", [ "file1.txt", TestFiles::EMPTY_TEST_DIR])
end

class AbstractOutputStreamTest < RUNIT::TestCase
class TestOutputStream
  include AbstractOutputStream

  attr_accessor :buffer

  def initialize
    @buffer = ""
  end

  def << (data)
    @buffer << data
    self
  end

  def setup
    @outputStream = TestOutputStream.new

    @origCommaSep = $,
    @origOutputSep = $\n  end

  def teardown
    $, = @origCommaSep

    #{@outputStream = TestOutputStream.new

    @origCommaSep = $,
    @origOutputSep = $\n  end

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def test_write
    count = @outputStream.write("a little string")
    assert_equal("a little string", @outputStream.buffer)
    assert_equal("a little string".length, count)

    count = @outputStream.write("a little more")
    assert_equal("a little string. a little more", @outputStream.buffer)
    assert_equal("a little more".length, count)
end

def test_print
    \ = nil # record separator set to nil
    @outputStream.print("hello")
    assert_equal("hello", @outputStream.buffer)

    @outputStream.print(" world.")
    assert_equal("hello world.", @outputStream.buffer)

    @outputStream.print(" You ok ", "out ", "there?")
    assert_equal("hello world. You ok out there?", @outputStream.buffer)

    \ = "\n"
    @outputStream.print
    assert_equal("hello world. You ok out there?\n", @outputStream.buffer)

    @outputStream.print("I sure hope so!")
    assert_equal("hello world. You ok out there?\nI sure hope so!\n", @outputStream.buffer)

    $s = "X"
    @outputStream.buffer = ""
    @outputStream.print("monkey", "duck", "zebra")
    assert_equal("monkey\nXduck\nXzebra\n", @outputStream.buffer)

    \ = nil
    @outputStream.buffer = ""
    @outputStream.print(20)
    assert_equal("20", @outputStream.buffer)
end

def test_printf
    @outputStream.printf("%d %04x", 123, 123)
    assert_equal("123 007b", @outputStream.buffer)
end

def test_putchar

module CrcTest
  def runCrcTest(compressorClass)
    str = "Here's a nice little text to compute the crc for! Ho hum, it is nice nice nice nice indeed."
    fakeOut = AbstractOutputStreamTest::TestOutputStream.new

    deflater = compressorClass.new(fakeOut)
    deflater << str
    assert_equal(0x919920fc, deflater.crc)
  end
end

class PassThruCompressorTest < RUNIT::TestCase
  include CrcTest
def test_size
  File.open("dummy.txt", "wb") { |file|
    compressor = PassThruCompressor.new(file)

    assert_equals(0, compressor.size)

    t1 = "hello world"
    t2 = ""
    t3 = "bingo"

    compressor << t1
    assert_equals(compressor.size, t1.size)

    compressor << t2
    assert_equals(compressor.size, t1.size + t2.size)

    compressor << t3
    assert_equals(compressor.size, t1.size + t2.size + t3.size)
  }
end

def test_crc
  runCrcTest(PassThruCompressor)
end
end

class DeflaterTest < RUNIT::TestCase
  include CrcTest

  def test_outputOperator
    txt = loadFile("ziptest.rb")
    deflate(txt, "deflatertest.bin")
    inflatedTxt = inflate("deflatertest.bin")
    assert_equals(txt, inflatedTxt)
  end

  private
  def loadFile(fileName)
    txt = nil
    File.open(fileName, "rb") { |f| txt = f.read }
  end

  def deflate(data, fileName)
    File.open(fileName, "wb") { |file|
      deflater = Deflater.new(file)
      deflater << data
    }
  end
end
deflater.finish
assert_equal(deflater.size, data.size)
file << "trailing data for zlib with -MAX_WBITS"
}
end

def inflate(fileName)
  txt = nil
  File.open(fileName, "rb") {
    |file|
    inflater = Inflater.new(file)
    txt = inflater.read
  }
end

def test_crc
  runCrcTest(Deflater)
end
end

class ZipOutputStreamTest < RUNIT::TestCase
  include AssertEntry

  TEST_ZIP = TestZipFile::TEST_ZIP2.clone
  TEST_ZIP.zipName = "output.zip"

  def test_new
    zos = ZipOutputStream.new(TEST_ZIP.zipName)
    zos.comment = TEST_ZIP.comment
    writeTestZip(zos)
    zos.close
    assertTestZipContents(TEST_ZIP)
  end

  def test_open
    ZipOutputStream.open(TEST_ZIP.zipName) {
      |zos|
      zos.comment = TEST_ZIP.comment
      writeTestZip(zos)
    }
    assertTestZipContents(TEST_ZIP)
  end

  def test_writingToClosedStream
    assertIOErrorInClosedStream { |zos| zos << "hello world" }
    assertIOErrorInClosedStream { |zos| zos.puts "hello world" }
    assertIOErrorInClosedStream { |zos| zos.write "hello world" }
  end

end
def test_cannotOpenFile
  name = TestFiles::EMPTY_TEST_DIR
  begin
    zos = ZipOutputStream.open(name)
  rescue Exception
    assert($!.kind_of?(Errno::EISDIR) || # Linux
             $!.kind_of?(Errno::EEXIST) || # Windows/cygwin
             $!.kind_of?(Errno::EACCES), # Windows
             "Expected Errno::EISDIR (or on win/cygwin: Errno::EEXIST), but was: #{$!.type}")
  end
end

def assertIOErrorInClosedStream
  assert_exception(IOError) {
    zos = ZipOutputStream.new("test_putOnClosedStream.zip")
    zos.close
    yield zos
  }
end

def writeTestZip(zos)
  TEST_ZIP.entryNames.each { |entryName|
    zos.putNextEntry(entryName)
    File.open(entryName, "rb") { |f| zos.write(f.read) }
  }
end
end

module Enumerable
  def compareEnumerables(otherEnumerable)
    otherAsArray = otherEnumerable.to_a
    index=0
    each_with_index { |element, index|
      return false unless yield(element, otherAsArray[index])
    }
    return index+1 == otherAsArray.size
  end
end

class ZipCentralDirectoryEntryTest < RUNIT::TestCase
  def test_readFromStream
File.open("testDirectory.bin", "rb") {
  file
  entry = ZipEntry.readCDirEntry(file)

  assert_equals("longAscii.txt", entry.name)
  assert_equals(ZipEntry::DEFLATED, entry.compressionMethod)
  assert_equals(106490, entry.size)
  assert_equals(3784, entry.compressedSize)
  assert_equals(0xfc1799c, entry.crc)
  assert_equals("", entry.comment)

  entry = ZipEntry.readCDirEntry(file)
  assert_equals("empty.txt", entry.name)
  assert_equals(ZipEntry::STORED, entry.compressionMethod)
  assert_equals(0, entry.size)
  assert_equals(0, entry.compressedSize)
  assert_equals(0x0, entry.crc)
  assert_equals("", entry.comment)

  entry = ZipEntry.readCDirEntry(file)
  assert_equals("short.txt", entry.name)
  assert_equals(ZipEntry::STORED, entry.compressionMethod)
  assert_equals(6, entry.size)
  assert_equals(6, entry.compressedSize)
  assert_equals(0xbb76fe69, entry.crc)
  assert_equals("", entry.comment)

  entry = ZipEntry.readCDirEntry(file)
  assert_equals("longBinary.bin", entry.name)
  assert_equals(ZipEntry::DEFLATED, entry.compressionMethod)
  assert_equals(1000024, entry.size)
  assert_equals(70847, entry.compressedSize)
  assert_equals(0x10da7d59, entry.crc)
  assert_equals("", entry.comment)

  entry = ZipEntry.readCDirEntry(file)
  assert_equals(nil, entry)

  # Fields that are not check by this test:
  #          version made by                 2 bytes
  #          version needed to extract       2 bytes
  #          general purpose bit flag        2 bytes
  #          last mod file time              2 bytes
  #          last mod file date              2 bytes
  #          compressed size                 4 bytes
  #          uncompressed size               4 bytes
  #          disk number start               2 bytes
  #          internal file attributes        2 bytes
  #          external file attributes        4 bytes
relative offset of local header 4 bytes

file name (variable size)
extra field (variable size)
file comment (variable size)

} end

def test_ReadEntryFromTruncatedZipFile
  fragment=""
  File.open("testDirectory.bin") { |f| fragment = f.read(12) } # cdir entry header is at least 46 bytes
  fragment.extend(IO::String)
  entry = ZipEntry.new
  entry.readCDirEntry(fragment)
  fail "ZipError expected"
  rescue ZipError
end

class ZipCentralDirectoryTest < RUNIT::TestCase
  def test_readFromStream
    File.open(TestZipFile::TEST_ZIP2.zipName, "rb") { |zipFile|
      cdir = ZipCentralDirectory.readFromStream(zipFile)
      assert_equality(TestZipFile::TEST_ZIP2.entryNames.size, cdir.size)
      assert(cdir.compareEnumerables(TestZipFile::TEST_ZIP2.entryNames) { |cdirEntry, testName|
        cdirEntry.name == testName
      })
      assert_equality(TestZipFile::TEST_ZIP2.comment, cdir.comment)
    }
  end

def test_readFromInvalidStream
  File.open("ziptest.rb", "rb") { |
    zipFile |
    cdir = ZipCentralDirectory.new
    cdir.readFromStream(zipFile)
  }
  fail "ZipError expected!"
  rescue ZipError
end

def test_ReadFromTruncatedZipFile

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fragment=""
File.open("testDirectory.bin") { |f| fragment = f.read }
fragment.slice!(12) # removed part of first cdir entry. eocd structure still complete
fragment.extend(IOizeString)
entry = ZipCentralDirectory.new
entry.readFromStream(fragment)
fail "ZipError expected"
rescue ZipError
end

def test_writeToStream
entries = [ ZipEntry.new("file.zip", "flimse", "myComment", "somethingExtra"),
           ZipEntry.new("file.zip", "secondEntryName"),
           ZipEntry.new("file.zip", "lastEntry.txt", "Has a comment too") ]
cdir = ZipCentralDirectory.new(entries, "my zip comment")
File.open("cdirtest.bin", "wb") { |f| cdir.writeToStream(f) }
cdirReadback = ZipCentralDirectory.new
File.open("cdirtest.bin", "rb") { |f| cdirReadback.readFromStream(f) }
assert_equals(cdir.entries, cdirReadback.entries)
end

def test_equality
cdir1 = ZipCentralDirectory.new([ ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                "my zip comment")
cdir2 = ZipCentralDirectory.new([ ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                "my zip comment")
cdir3 = ZipCentralDirectory.new([ ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                "comment?"
)
cdir4 = ZipCentralDirectory.new([ ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                "comment?"
)
assert_equals(cdir1, cdir1)
assert_equals(cdir1, cdir2)
assert(cdir1 != cdir3)
assert(cdir2 != cdir3)
assert(cdir2 != cdir3)
assert(cdir3 != cdir4)

assert(cdir3 != "hello")
end
end

class BasicZipFileTest < RUNIT::TestCase
  include AssertEntry

  def setup
    @zipFile = ZipFile.new(TestZipFile::TEST_ZIP2.zipName)
    @testEntryNameIndex=0
  end

  def nextTestEntryName
    retVal=TestZipFile::TEST_ZIP2.entryNames[@testEntryNameIndex]
    @testEntryNameIndex++
    return retVal
  end

  def test_entries
    assert_equals(TestZipFile::TEST_ZIP2.entryNames, @zipFile.entries.map { |e| e.name } )
  end

  def test_each
    @zipFile.each { |entry|
      assert_equals(nextTestEntryName, entry.name)
    }
    assert_equals(4, @testEntryNameIndex)
  end

  def test_foreach
    ZipFile.foreach(TestZipFile::TEST_ZIP2.zipName) { |entry|
      assert_equals(nextTestEntryName, entry.name)
    }
    assert_equals(4, @testEntryNameIndex)
  end

  def test_getInputStream
    @zipFile.each { |entry|
      assertEntry(nextTestEntryName, @zipFile.getInputStream(entry), entry.name)
    }
    assert_equals(4, @testEntryNameIndex)
class CommonZipFileFixture < RUNIT::TestCase
  include AssertEntry

  EMPTY_FILENAME = "emptyZipFile.zip"

  TEST_ZIP = TestZipFile::TEST_ZIP2.clone
  TEST_ZIP.zipName = "4entry_copy.zip"

  def setup
    File.delete(EMPTY_FILENAME) if File.exists?(EMPTY_FILENAME)
    File.copy(TestZipFile::TEST_ZIP2.zipName, TEST_ZIP.zipName)
  end
end

class ZipFileTest < CommonZipFileFixture

  def test_createFromScratch
    comment = "a short comment"

    zf = ZipFile.new(EMPTY_FILENAME, ZipFile::CREATE)
    zf.comment = comment
    zf.close

    zfRead = ZipFile.new(EMPTY_FILENAME)
    assert_equals(comment, zfRead.comment)
    assert_equals(0, zfRead.entries.length)
  end

  def test_add
    srcFile = "ziptest.rb"
    entryName = "newEntryName.rb"
    assert(File.exists? srcFile)
    zf = ZipFile.new(EMPTY_FILENAME, ZipFile::CREATE)
    zf.add(entryName, srcFile)
    zf.close
  end
end
zfRead = ZipFile.new(EMPTY_FILENAME)
assert_equal("", zfRead.comment)
assert_equal(1, zfRead.entries.length)
assert_equal(entryName, zfRead.entries.first.name)
AssertEntry.assertContents(srcFile, 
    zfRead.getInputStream(entryName) { |zis| zis.read })
end

def test_addExistingEntryName
    assert_exception(ZipEntryExistsError) {
        ZipFile.open(TEST_ZIP.zipName) {
            zf
            zf.add(zf.entries.first.name, "ziptest.rb")
        }
    }
end

def test_addExistingEntryNameReplace
    gotCalled = false
    replacedEntry = nil
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        replacedEntry = zf.entries.first.name
        zf.add(replacedEntry, "ziptest.rb") { gotCalled = true; true }
    }
    assert(gotCalled)
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        assertContains(zf, replacedEntry, "ziptest.rb")
    }
end

def test_addDirectory
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        zf.add(TestFiles::EMPTY_TEST_DIR, TestFiles::EMPTY_TEST_DIR)
    }
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        dirEntry = zf.entries.detect { |e| e.name == TestFiles::EMPTY_TEST_DIR+"/" }
        assert(dirEntry.isDirectory)
    }
end

def test_remove
    entryToRemove, *remainingEntries = TEST_ZIP.entryNames
File.copy(TestZipFile::TEST_ZIP2.zipName, TEST_ZIP.zipName)

zf = ZipFile.new(TEST_ZIP.zipName)
assert(zf.entries.map { |e| e.name }.include?(entryToRemove))
zf.remove(entryToRemove)
assert(!zf.entries.map { |e| e.name }.include?(entryToRemove))
assert_equal(zf.entries.map { |x| x.name }.sort, remainingEntries.sort)
zf.close

zfRead = ZipFile.new(TEST_ZIP.zipName)
assert(!zfRead.entries.map { |e| e.name }.include?(entryToRemove))
assert_equal(zfRead.entries.map { |x| x.name }.sort, remainingEntries.sort)
zfRead.close
end

def test_rename
  entryToRename, *remainingEntries = TEST_ZIP.entryNames

  zf = ZipFile.new(TEST_ZIP.zipName)
  assert(zf.entries.map { |e| e.name }.include? entryToRename)

  newName = "changed name"
  assert(!zf.entries.map { |e| e.name }.include?(newName))

  zf.rename(entryToRename, newName)
  assert(zf.entries.map { |e| e.name }.include? newName)

  zf.close

  zfRead = ZipFile.new(TEST_ZIP.zipName)
  assert(zfRead.entries.map { |e| e.name }.include? newName)
  zfRead.close
end

def test_renameToExistingEntry
  oldEntries = nil
  ZipFile.open(TEST_ZIP.zipName) { |zf| oldEntries = zf.entries }

  assert_exception(ZipEntryExistsError) {
    ZipFile.open(TEST_ZIP.zipName) {
      zf
      zf.rename(zf.entries[0], zf.entries[1].name)
    }
  }
  ZipFile.open(TEST_ZIP.zipName) {
    zf
  }
end
assert_equal(oldEntries.map{ |e| e.name }, zf.entries.map{ |e| e.name })
end

def test_renameToExistingEntryOverwrite
  oldEntries = nil
  ZipFile.open(TEST_ZIP.zipName) { |zf| oldEntries = zf.entries }

  gotCalled = false
  ZipFile.open(TEST_ZIP.zipName) {
    |zf|
    zf.rename(zf.entries[0], zf.entries[1].name) { gotCalled = true; true }
  }

  assert(gotCalled)
  oldEntries.delete_at(0)
  ZipFile.open(TEST_ZIP.zipName) {
    |zf|
    assert_equal(oldEntries.map{ |e| e.name }, zf.entries.map{ |e| e.name })
  }
end

def test_renameNonEntry
  nonEntry = "bogusEntry"
  targetEntry = "targetEntryName"
  zf = ZipFile.new(TEST_ZIP.zipName)
  assert(! zf.entries.include?(nonEntry))
  assert_exception(ZipNoSuchEntryError) {
    zf.rename(nonEntry, targetEntry)
  }
  zf.commit
  assert(! zf.entries.include?(targetEntry))
  ensure
  zf.close
end

def test_renameEntryToExistingEntry
  entry1, entry2, *remaining = TEST_ZIP.entryNames
  zf = ZipFile.new(TEST_ZIP.zipName)
  assert_exception(ZipEntryExistsError) {
    zf.rename(entry1, entry2)
  }
  ensure
  zf.close
end

def test_replace
unchangedEntries = TEST_ZIP.entryNames.dup
entryToReplace = unchangedEntries.delete_at(2)
newEntrySrcFilename = "ziptest.rb"

zf = ZipFile.new(TEST_ZIP.zipName)
zf.replace(entryToReplace, newEntrySrcFilename)
zf.close

zfRead = ZipFile.new(TEST_ZIP.zipName)
AssertEntry::assertContents(newEntrySrcFilename,
zfRead.getInputStream(entryToReplace) { |is| is.read })
zfRead.close
end

def test_replaceNonEntry
    entryToReplace = "nonExistingEntryname"
    ZipFile.open(TEST_ZIP.zipName) { |
zf|
        assert_exception(ZipNoSuchEntryError) {
            zf.replace(entryToReplace, "ziptest.rb")
        }
    }
end

def test_commit
    newName = "renamedFirst"
    zf = ZipFile.new(TEST_ZIP.zipName)
    oldName = zf.entries.first
    zf.rename(oldName, newName)
    zf.commit
    zfRead = ZipFile.new(TEST_ZIP.zipName)
    assert(zfRead.entries.detect { |e| e.name == newName } != nil)
    assert(zfRead.entries.detect { |e| e.name == oldName } == nil)
    zfRead.close
end

# This test tests that after commit, you
# can delete the file you used to add the entry to the zip file
# with

def test_commitUseZipEntry
    File.copy(TestFiles::RANDOM_ASCII_FILE1, "okToDelete.txt")
    zf = ZipFile.open(TEST_ZIP.zipName)
    zf.add("okToDelete.txt", "okToDelete.txt")
    assertContains(zf, "okToDelete.txt")
zf.commit
File.move("okToDelete.txt", "okToDeleteMoved.txt")
assertContains(zf, "okToDelete.txt", "okToDeleteMoved.txt")
end

# def test_close
# zf = ZipFile.new(TEST_ZIP.zipName)
# zf.close
# assert_exception(IOError) {
# zf.extract(TEST_ZIP.entryNames.first, "hullubullu")
# }
# end

def test_compound1
  renamedName = "renamedName"
  originalEntries = []
  begin
    zf = ZipFile.new(TEST_ZIP.zipName)
    originalEntries = zf.entries.dup
    assertNotContains(zf, TestFiles::RANDOM_ASCII_FILE1)
    zf.add(TestFiles::RANDOM_ASCII_FILE1, TestFiles::RANDOM_ASCII_FILE1)
    assertContains(zf, TestFiles::RANDOM_ASCII_FILE1)
    zf.rename(zf.entries[0], renamedName)
    assertContains(zf, renamedName)
    TestFiles::BINARY_TEST_FILES.each { |filename|
      zf.add(filename, filename)
      assertContains(zf, filename)
    }
    assertContains(zf, originalEntries.last.to_s)
    zf.remove(originalEntries.last.to_s)
    assertNotContains(zf, originalEntries.last.to_s)
  ensure
    zf.close
  end
  begin
    zfRead = ZipFile.new(TEST_ZIP.zipName)
    assertContains(zfRead, TestFiles::RANDOM_ASCII_FILE1)
    assertContains(zfRead, renamedName)
    TestFiles::BINARY_TEST_FILES.each { |filename|
      assertContains(zfRead, filename)
    }
  end
end
def test_compound2
    begin
        zf = ZipFile.new(TEST_ZIP.zipName)
        originalEntries = zf.entries.dup

        originalEntries.each { |entry|
            zf.remove(entry)
            assertNotContains(zf, entry)
        }
        assert(zf.entries.empty?)

        TestFiles::ASCII_TEST_FILES.each { |filename|
            zf.add(filename, filename)
            assertContains(zf, filename)
        }
        assert_equals(zf.entries.map { |e| e.name }, TestFiles::ASCII_TEST_FILES)

        zf.rename(TestFiles::ASCII_TEST_FILES[0], "newName")
        assertNotContains(zf, TestFiles::ASCII_TEST_FILES[0])
        assertContains(zf, "newName")
        ensure
        zf.close
    end

    begin
        zfRead = ZipFile.new(TEST_ZIP.zipName)
        asciiTestFiles = TestFiles::ASCII_TEST_FILES.dup
        asciiTestFiles.shift
        asciiTestFiles.each { |filename|
            assertContains(zfRead, filename)
        }
        assertContains(zfRead, "newName")
        ensure
        zfRead.close
    end
end

private
def assertContains(zf, entryName, filename = entryName)
    assert(zf.entries.detect { |e| e.name == entryName } != nil, "entry #{entryName} not in #{zf.entries.join(', ')} in zip file #{zf}")
    assertEntryContents(zf, entryName, filename) if File.exists?(filename)
end

def assertNotContains(zf, entryName)
    assert(zf.entries.detect { |e| e.name == entryName } == nil, "entry #{entryName} in #{zf.entries.join(', ')} in zip file #{zf}")
end

class ZipFileExtractTest < CommonZipFileFixture
    EXTRACTED_FILENAME = "extEntry"
    ENTRY_TO_EXTRACT, *REMAINING_ENTRIES = TEST_ZIP.entryNames.reverse

    def setup
        super
        File.delete(EXTRACTED_FILENAME) if File.exists?(EXTRACTED_FILENAME)
    end

def test_extract
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        zf.extract(ENTRY_TO_EXTRACT, EXTRACTED_FILENAME)

        assert(File.exists?(ENTRY_TO_EXTRACT, EXTRACTED_FILENAME)
        AssertEntry::assertContents(EXTRACTED_FILENAME, zf.getInputStream(ENTRY_TO_EXTRACT) { |is| is.read })
    }
end

def test_extractExists
    writtenText = "written text"
    File.open(EXTRACTED_FILENAME, "w") { |f| f.write(writtenText) }

    assert_exception(ZipDestinationFileExistsError) {
        ZipFile.open(TEST_ZIP.zipName) {
            zf
            zf.extract(zf.entries.first, EXTRACTED_FILENAME)
        }
    }
    File.open(EXTRACTED_FILENAME, "r") {
        |f|
        assert_equals(writtenText, f.read)
    }
end
```ruby
def test_extractExistsOverwrite
    writtenText = "written text"
    File.open(EXTRACTED_FILENAME, "w") { |f| f.write(writtenText) }

    gotCalled = false
    ZipFile.open(TEST_ZIP.zipName) {
      zf
      zf.extract(zf.entries.first, EXTRACTED_FILENAME) { gotCalled = true; true }
    }

    assert(gotCalled)
    File.open(EXTRACTED_FILENAME, "r") { |
      f
      assert(writtenText != f.read)
    }
end

def test_extractNonEntry
    zf = ZipFile.new(TEST_ZIP.zipName)
    assert_exception(ZipNoSuchEntryError) { zf.extract("nonExistingEntry", "nonExistingEntry") } ensure
    zf.close if zf
end

def test_extractNonEntry2
    outFile = "outfile"
    assert_exception(ZipNoSuchEntryError) { 
      zf = ZipFile.new(TEST_ZIP.zipName)
      nonEntry = "hotdog-diddelidoo"
      assert(! zf.entries.include?(nonEntry))
      zf.extract(nonEntry, outFile)
      zf.close
    }
    assert(! File.exists?(outFile))
end

class ZipFileExtractDirectoryTest < CommonZipFileFixture
  TEST_OUT_NAME = "emptyOutDir"

  def openZip(&aProc)
    assert(aProc != nil)
    ZipFile.open(TestZipFile::TEST_ZIP4.zipName, &aProc)
  end

  def extractTestDir(&aProc)
    openZip { 
```
zf.extract(TestFiles::EMPTY_TEST_DIR, TEST_OUT_NAME, &aProc)
}
end

def setup
  super
  Dir.rmdir(TEST_OUT_NAME) if File.directory? TEST_OUT_NAME
  File.delete(TEST_OUT_NAME) if File.exists? TEST_OUT_NAME
end

def test_extractDirectory
  extractTestDir
  assert(File.directory? TEST_OUT_NAME)
end

def test_extractDirectoryExistsAsDir
  Dir.mkdir TEST_OUT_NAME
  extractTestDir
  assert(File.directory? TEST_OUT_NAME)
end

def test_extractDirectoryExistsAsFile
  File.open(TEST_OUT_NAME, "w") { |f| f.puts "something" }
  assert_exception(ZipDestinationFileExistsError) { extractTestDir }
end

def test_extractDirectoryExistsAsFileOverwrite
  File.open(TEST_OUT_NAME, "w") { |f| f.puts "something" }
  gotCalled = false
  extractTestDir { |
    entry, destPath|
    gotCalled = true
    assert_equal(entry.isDirectory)
  }
  assert(gotCalled)
  assert(File.directory? TEST_OUT_NAME)
end

def TestFiles::createTestFiles(ARGV.index("recreate") != nil || ARGV.index("recreateonly") != nil)
TestZipFile::createTestZips(ARGV.index("recreate") != nil || ARGV.index("recreateonly") != nil)
exit if ARGV.index("recreateonly") != nil

#require 'runit/cui/testrunner'
#RUNIT::CUI::TestRunner.run(ZipFileTest.suite)

# Copyright (C) 2002 Thomas Sondergaard
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# modify it under the terms of the ruby license.

Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/test/data/file2.txt
No license file was found, but licenses were detected in source scan.

# Path Traversal Samples


License: MIT

Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/test/data/path_traversal/jwilk/README.md
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Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/entry_set.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/deflater.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/pass_thru_decompressor.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/samples/example_filesystem.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/null_compressor.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/filesystem.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/input_stream.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/output_stream.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/crypto/null_encryption.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/crypto/decompressor.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/crypto/traditional_encryption.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/crypto/encryption.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/entry.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/streamable_directory.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/dos_time.rb
Rubyzip is distributed under the same license as ruby. See

Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/README.md

1.1317 raphael 2.1.2
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1.1319 logstash-output-csv 3.0.8

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1.1320 jackson-module-afterburner 2.9.10
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1.1321 arptables 1.8.4
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Gocheck - A rich testing framework for Go

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Portions of this code are derived from:

https://github.com/dradtke/gotk3

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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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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
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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
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact
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warranty; and distribute a copy of this License along with the
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You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
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2. You may modify your copy or copies of the Library or any portion
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distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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++++++++++++++++
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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1.1331 fuse 2.9.7 12.el8

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*/opt/cola/permits/1111517771_1611905252.9/0/backbone-paginator-js-zip/backbone.paginator.js

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1.1335 go-zookeeper-zk 1.0.2

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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func initBsdClause3() {
Licenses["bsd"] = License{
Name: "NewBSD",
PossibleMatches: string["bsd", "newbsd", "3 clause bsd", "3-clause bsd"],
Header: `All rights reserved.
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `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.

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    }
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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

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

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

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

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

    initApache2()
    initMit()}
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

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

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

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn’t find
// then appropriate match to name.
func matchLicense(name string) string {
  if name == "" {
    return ""
  }
  for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
      if strings.EqualFold(name, match) {
        return key
      }
    }
  }
  return ""
}

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package cmd

func initGpl3() {
  Licenses["gpl3"] = License{
    Name:            "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    Header: `
""
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```
package cmd

func initLGPL() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.’,
}
}
package cmd

func initAgpl() {
Licenses["agpl"] = License{
Name: ‘GNU Affero General Public License’,
PossibleMatches: ["agpl", "affero gpl", "gnu agpl"],
Header: ‘
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
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func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
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    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights 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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1.1338 logrus 1.8.1
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1.1339 libss 1.45.4-3.el8

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSD_LIB)

$(BSD_LIB): $(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-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)

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

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

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

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

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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* /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-jar/org/springframework/http/client/OkHttp3AsyncClientHttpRequest.java
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* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
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  * /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
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  * /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-jar/org/springframework/web/server/ServerWebAsyncRequestControl.java
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* /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-
  jar/org/springframework/web/context/support/ServletContextResourcePatternResolver.java
* /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-
  jar/org/springframework/web/util/UriComponentsBuilder.java
* /opt/ws_local/PERMITS_SQL/1074764516_1595944148.66/0/spring-web-5-2-8-release-sources-
  jar/org/springframework/web/util/UriBuilderFactory.java
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  jar/org/springframework/web/server/adapter/WebHttpHandlerBuilder.java
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# MIME type (lowercased)Extensions
# =============================================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inseteze
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/ctxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/ccmp+xml
application/ccxml+xml
application/ccxml+xml
application/ccxml+xmlccxml
application/ccxml+xmlccxml
application/cdfx+xml
application/cdmi-capabilitycdmia
application/cdmi-containercdmic
application/cdmi-domaincdmid
application/cdmi-objectcdmio
application/cdmi-queuecdmiq
# application/cdmi
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrf+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/estadata+xml
# application/csvm+json
application/cu-seeme
cu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xmlldavmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xmldbk
# application/dskpp+xml
application/dssc+derdssc
dassc+xdssc
dassc+xml
# application/dvcs
dassc+xml
application/eemascriptecma
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application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zipepub
# application/eshop
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application/exi
# application/fastinfoset
# application/fastsoap
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application/mp4mp4s
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# application/mpeg4-iod-xmt
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application/pgp-encryptedpgp
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
# application/pkcs12
application/pkcs7-mimep7m p7c
application/pkcs7-signaturep7s
application/pkcs8p8
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application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp
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# application/sep-exi
# application/session-info
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application/set-payment-initiation setpay
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application/ssml+xml ssml
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# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
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application/thraud+xml tfi
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# application/timestamp-reply
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1.1345 selinux 2.9-5.el8

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## <summary>Polaris dbgd Policy Rules.</summary>

```
## <summary>
##      Write dbgd /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_dbgd_var_sock_write',
    gen_require('type polaris_dbgd_t;
type polaris_dbgd_var_run_t;
type var_run_t;
')
    write_sock_files_pattern($1, var_run_t, polaris_dbgd_var_run_t)
    allow $1 polaris_dbgd_t:unix_stream_socket { connectto };
');
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.if

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## <summary>Polaris cpp_stats Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.if

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# Map GNSS TTY to correct device context
/dev/ttyS1 -c gen_context(system_u:object_r:polaris_cabo_gnss_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.fc

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policy_module(polarisnginx, 1.0);

gen_require(
    type polaris_nginx_t;
)

polaris_btrace_data_manage(polaris_nginx_t)
polaris_chasfs_manage(polaris_nginx_t)
polaris_tdlresolve_read(polaris_nginx_t)
polaris_tdlldb_list_dirs(polaris_nginx_t)
polaris_cpld_read(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_flashlib_read(polaris_nginx_t)
polaris_crft_data_manage(polaris_nginx_t)
polaris_ripc_sman_ui_serv_connect(polaris_nginx_t)
polaris_lua_read(polaris_nginx_t)
polaris_disk_harddisk_read_lnk(polaris_nginx_t)

allow polaris_nginx_t self:tcp_socket { bind create listen accept setopt getopt shutdown};
allow polaris_nginx_t self:capability2 block_suspend;
allow polaris_nginx_t self:capability { setgid setuid sys_resource };

polaris_lfts_dev_use(polaris_nginx_t)
logging_send_syslog_msg(polaris_nginx_t)

corenet_tcp_connect_http_port(polaris_nginx_t)
corenet_tcp_bind_generic_node(polaris_nginx_t)
corenet_tcp_bind_http_port(polaris_nginx_t)
corenet_tcp_connect_pkiserver_port(polaris_nginx_t)
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_nginx_t)
# Allow the nginx to search/read the web servers config files
apache_read_config(polaris_nginx_t)
apache_search_config(polaris_nginx_t)
# allow read httpd_sys_content_t (/var/www/...)
apache_read_sys_content(polaris_nginx_t)

gen_require(
  type httpd_var_run_t;
  type syslogd_var_run_t;
  )
ssetattr_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
manage_sock_files_pattern(polaris_nginx_t, httpd_var_run_t, httpd_var_run_t)
files_pid_filetrans(polaris_nginx_t, httpd_var_run_t, { file sock_file dir unix_stream_socket })

polaris_socketat_nsfs_read(polaris_nginx_t)
# socketat does setsockopt SO_VRF
allow polaris_nginx_t self:capability net_admin;
auth_use_nsswitch(polaris_nginx_t)

allow polaris_nginx_t tmp_t:dir create_dir_perms;
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_access.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "ngx_error.log")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.pid")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.accept")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.cookie_tbl")
files_tmp_filetrans(polaris_nginx_t, httpd_log_t, file, "nginx.lock.login_count")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "openresty.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxcsrf.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxtest.log")
create_dirs_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
manage_files_pattern(polaris_nginx_t, httpd_log_t, httpd_log_t)
apache_read_log(polaris_nginx_t)
apache_write_log(polaris_nginx_t)

polaris_restconf_tmp_use(polaris_nginx_t)
dev_read_sysfs(polaris_nginx_t)

# dev/zram0 needs fs_t:filesystem getattr
ifdef(`quake_platform',`
fs_getattr_xattr_fs(polaris_nginx_t)
')

type polaris_nginx_tmp_t:
files_tmp_file(polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_aaa")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_master")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "nginx_session")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, file, "ciscosdwan.cfg")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "proxy_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "client_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "fastcgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "scgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "uwsgi_temp")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "pki")
files_tmp_filetrans(polaris_nginx_t, polaris_nginx_tmp_t, dir, "auth")

polaris_restconf_read(polaris_nginx_t)

############################################################################
# webui_helper.sh/webui_helper_upgrade.sh
##########################################################################
polaris_process_domain_template(nginx_webui)
polaris_process_domain_template(nginx_webui_install)
polaris_nginx_exec_domain(polaris_nginx_webui_t, polaris_nginx_webui_exec_t)
polaris_nginx_exec_domain(polaris_nginx_webui_install_t, polaris_nginx_webui_install_exec_t)
corecmd_exec_bin(polaris_nginx_webui_t)
corecmd_exec_bin(polaris_nginx_webui_install_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_webui_t)
auth_use_nsswitch(polaris_nginx_webui_install_t)

#allow polaris_nginx_webui_t/polaris_nginx_webui_install_t access to nginx_webui /tmp base folder
#/tmp/nginx/webui_tmp
manage_files_pattern(polaris_nginx_webui_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_files_pattern(polaris_nginx_webui_install_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)

#allow polaris_file_transfer_client_t to access nginx webui /tmp base folder
# /tmp/nginx/webui_tmp. We also need to allow chvrf to use the FIFO in cases
# where we use the VRF interface
gen_require(
    type polaris_file_transfer_client_t;
    type polaris_chvrf_t;
    )
manage_files_pattern(polaris_file_transfer_client_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_fifio_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
manage_fifio_files_pattern(polaris_chvrf_t, polaris_nginx_t, polaris_nginx_t)

# fts_client binary requires access to chassis, tdlresolve and cpld
polaris_tdlresolve_read(polaris_file_transfer_client_t)
polaris_chasfs_manage(polaris_file_transfer_client_t)
polaris_cpld_read(polaris_file_transfer_client_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

gen_require(
    type polaris_file_transfer_client_exec_t;
    )
polaris_bexecute_domain(polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t)

type polaris_fts_client_tmp_t;
files_tmp_file(polaris_fts_client_tmp_t)
polaris_fts_client_tmp_manage(polaris_file_transfer_client_t)

# on ultra /var/www directory created by systemd unit that runs /mount_packages.sh
# under unconfined_service_t domain
gen_require(
    type unconfined_service_t;
    )
files_var_filetrans(unconfined_service_t, httpd_sys_content_t, dir, "www")

allow polaris_nginx_t self:capability dac_override;

# iox local mgr in webui connects to caf service on port 8098
corenct_tcp_connect_polaris_caf_api_port(polaris_nginx_t)

# IOx downloads the application package using network protocol (e.g http)
gen_require(
    type fifo_var_run_t;
    )
allow polaris_file_transfer_client_t fifo_var_run_t:fifo_file read;

# webui connects to dbm backend service on port 9090
corenct_tcp_connect_polaris_wnc_mgkd_port(polaris_nginx_t)
# webui connects to poljvm service on port 9093
corenet_tcp_connect_polaris_poljvm_websocket_port(polaris_nginx_t)

# remote docker workflow
corenet_tcp_connect_us_cli_port(polaris_nginx_t)

# webui sw mgmt app which does install and smu, invokes webui helper shell
# scripts which inturn invoke installer scripts. Hence need to provide transition
# rule to polaris_install_engine_t domain
polaris_install_engine_domtrans(polaris_nginx_webui_install_t)
polaris_install_show_domtrans(polaris_nginx_webui_install_t)

# Allow pipe operations during install command invocation
polaris_nginx_manage_fifo_files(polaris_bexecute_t)
polaris_nginx_manage_fifo_files(polaris_code_verify_t)
polaris_nginx_manage_fifo_files(polaris_install_engine_t)
polaris_nginx_manage_fifo_files(polaris_install_show_t)
polaris_nginx_manage_fifo_files(rsync_t)

# During install-add via WebUI, code_sign_verify generates a file:map denial
# "/usr/bin/code_sign_verify package
# /tmp/patch/smus/10_vwle_apsp_ap3g3_17.6.bin/mount/C9800-CL-mono-patch.2021-01-11_11.31_radonep"
require {
type etc_runtime_t;
}
allow polaris_code_verify_t etc_runtime_t:file map;

# Provide sys_resource capability to webui install scripts for sys_pipe calls.
allow polaris_nginx_webui_install_t self:capability sys_resource;

# nginx/webui File-manager app provides bootflash file-mgmt facility.
# as part of this it needs RW access to bootflash.
# TODO: Bug CSCvp83328 to isolate the access to another utility, which
# can have its own domain and nginx_t can transition to it.
polaris_bootflash_manage(polaris_nginx_t)

# allow nginx to manage core files
polaris_core_file_manage(polaris_nginx_t)

# luajit module for nginx triggers execmem denial due to mprotect call.
# TODO: cdets CSCvp70095 is used to track this vulnerability in
# current nginx component.
allow polaris_nginx_t self:process execmem;

# FIXME : allow shell/binary execution
# Elevated privelage needs to be addressed
# Tracked by Bugid : CSCvp93448
corecmd_exec_bin(polaris_nginx_t)
corecmd_exec_shell(polaris_nginx_t)

#FIXME
# Need to re-evaluate these privileges
#Tracked by Bugid : CSCvp92908, CSCvt81963(fts_client)
polaris_file_transfer_client_domtrans(polaris_nginx_webui_install_t)
# nginx need access btrace fifo file:
polaris_use_btrace_fifo(polaris_nginx_t)
gen_require(')
    type proc_t;
')
manage_files_pattern(polaris_nginx_t, polaris_nginx_t,polaris_nginx_t)
allow polaris_nginx_t proc_t:filesystem { associate };
# nginx needs access to /dev/stdout which is owned by pman
allow polaris_nginx_t polaris_pman_t:fifo_file open;

########################################################################
# aireos_translate_helper.sh
# Invokes a python library that converts aireos config to ewlc config.
########################################################################
type polaris_aireros_translator_scripts_t;
files_type(polaris_aireros_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireros_translator)
polaris_nginx_exec_domain(polaris_aireros_translator_webui_t, polaris_aireros_translator_exec_t)
allow polaris_nginx_t polaris_aireros_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireros_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_aireros_translator_exec_t:file ioctl;
allow polaris_nginx_t self:process setfscreate;
files_list_var(polaris_nginx_t)

########################################################################
# ra_trace_webui_helper.sh
# Invokes mcp_trace_filter.sh to perform radio active tracing.
########################################################################
polaris_process_domain_template(nginx_webui_trace_filter)
polaris_nginx_exec_domain(polaris_aireros_webui_trace_filter_t, polaris_aireros_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_aireros_webui_trace_filter_t)
manage_files_pattern(polaris_aireros_webui_trace_filter_t, polaris_aireros_tmp_t, polaris_aireros_tmp_t)
manage_dirs_pattern(polaris_aireros_webui_trace_filter_t, polaris_aireros_tmp_t, polaris_aireros_tmp_t)
auth_use_nsswitch(polaris_aireros_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_aireros_webui_trace_filter_t)
polaris_nginx_manage_fifo_files(polaris_trace_filter_t)

########################################################################
# nginx_helper.sh
#nginx show command helper run by pman invoking curl

polaris_utility_domain_template(nginx_helper)
polaris_pman_entry(polaris_nginx_helper_t, polaris_nginx_helper_exec_t)

#allow execution of nginx_helper.sh
corecmd_exec_bin(polaris_nginx_helper_t)

#allow read of /etc/passwd
auth_use_nsswitch(polaris_nginx_helper_t)

#allow access to the tmp fifo file
polaris_use_btrace_fifo(polaris_nginx_helper_t)

# nginx_helper.sh reads from chasfs
polaris_chasfs_manage(polaris_nginx_helper_t)

gen_require('
    type polaris_curl_t;
')

# allow execution of /usr/bin/curl on the pkiserver port
polaris_curl_domtrans(polaris_nginx_helper_t)
corenet_tcp_connect_pkiserver_port(polaris_curl_t)

#allow curl to write into chasfs
polaris_chasfs_manage(polaris_curl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.te
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#
# July 2017, Victor Kamensky
#
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#
## <summary>Polaris cpp_cdm Policy Rules.</summary>

#<summary>
#<param name="domain">Domain allowed access.

Open Source Used in Open Source Used in Cisco Identity Services Engine 3.2 19879
### <summary>
### Allow access to shared memory with type polaris_cedm_t
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

### <summary>
### Work with NDBLOAD_LOCK_PATH.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.if
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#

### <summary>Polaris dmi_ndbmand Policy Rules.</summary>

### <summary>
### Work with NDBLOAD_LOCK_PATH.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

---

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 19880
interface(`polaris_ndbload_lock_use',``
    gen_require(`
        type polaris_dmi_ndbutil_lock_t;
        type tmp_t;
    `)
    manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
    files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
)

manage_files_pattern($1, tmp_t, polaris_dmi_ndbutil_lock_t)
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-load")
files_tmp_filetrans($1, polaris_dmi_ndbutil_lock_t, file, ".l.ndbutil-use")
)

### <summary>
### Manage polaris_ndbmand_ndbutil_t files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

interface(`polaris_ndbmand_ndbutil_manage',``
    gen_require(`
        type polaris_ndbmand_ndbutil_t;
        type polaris_confd_ndbutil_lock_t;
    `)
    manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_ndbmand_ndbutil_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.if
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#

### <summary>Polaris sif_mgr Policy Rules.</summary>

### <summary>Allow the specified domain able to read sif_mgr /tmp files.</summary>
### <param name="type">
# Chasfs policy

## <summary>
## Manage chasfs files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_chasfs_manage',`

  read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

)
gen_require(''
  type polaris_chasfs_t;
')

  manage_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_lnk_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  manage_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;

interface('polaris_chasfs_read',
  gen_require(''
    type polaris_chasfs_t;
)'
)

  list_dirs_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_lnk_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_fifo_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)
  read_sock_files_pattern($1, polaris_chasfs_t, polaris_chasfs_t)

  allow $1 polaris_chasfs_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;

interface('chasync',
  gen_require(''
    type chasync_t;
)'
)

  list_dirs_pattern($1, chasync_t, chasync_t)
  read_files_pattern($1, chasync_t, chasync_t)
  read_lnk_files_pattern($1, chasync_t, chasync_t)
  read_fifo_files_pattern($1, chasync_t, chasync_t)
  read_sock_files_pattern($1, chasync_t, chasync_t)

  allow $1 chasync_t:{file dir} watch;

  # chasfs contains a lot of weird permission files
  allow $1 self:capability dac_read_search;
')

# chasfs contains a lot of weird permission files
allow $1 self:capability dac_read_search;
## getattr allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_chasync_files_manage',
    gen_require(
        type polaris_chasync_files_t;
    )
    manage_files_pattern($1, polaris_chasync_files_t, polaris_chasync_files_t)
)

#######################################
## <summary>
## Watch read chasfs directories
## </summary>
## <param name="domain">
## </param>
## <rolebase/>
#
interface('polaris_chasfs_watch_read',
    gen_require(
        type polaris_chasfs_t;
    )
    allow $1 polaris_chasfs_t:dir watch_reads;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.if
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#
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#

/dev/dev_lfts -c gen_context(system_u:object_r:polaris_lfts_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarisngwc, 1.0);

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
type polaris_chdrvmmmap_device_t;
dev_node(polaris_chdrvmmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
type polaris_gettysburg_fpga_device_t;
dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory maping driver /dev/cisco/dplriomem
type polaris_dplr_iomem_mmapdrv_device_t;
dev_node(polaris_dplr_iomem_mmapdrv_device_t)

# /dev/shm/ngwc_shm shared memory
type polaris_ngwc_shm_t;
files_type(polaris_ngwc_shm_t)

# /dev/shm/ngwc_scc_shm shared memory
type polaris_ngwc_scc_shm_t;
files_type(polaris_ngwc_scc_shm_t)

# /dev/shm/iomd_to_fed_ptp_offload shared memory
type polaris_ngwc_ifpfo_t;
files_type(polaris_ngwc_ifpfo_t)

# /dev/shm/sdm shared memory
type polaris_sdm_shm_t;
files_type(polaris_sdm_shm_t)
# /dev/shm/sem.i2c_sem00N quake sempaphor
type polaris_quake_i2c_t;
files_type(polaris_quake_i2c_t)

# FPGA io memory mapping driver /dev/cisco/fpgaiomem
type polaris_fpga_iomem_mmapfpga_device_t;
dev_node(polaris_fpga_iomem_mmapfpga_device_t)

# Mapping permission for /dev/shm/<name>
ifdef(`quake_platform',`
gen_require(`
    type systemd_tmpfiles_t;
    )
mmap_files_pattern(systemd_tmpfiles_t, polaris_quake_i2c_t, polaris_quake_i2c_t)
')

# In combined image we have several policies and we choose
# one to use in run-time, but file system is shared and
# labeled with different file_context files, so it is
# possible that we may have some labels that other policy
# does not understand for now just hard missing entries
ifdef(`nyquist_platform',`
    type polaris_cm_cc_exec_t;
    files_type(polaris_cm_cc_exec_t)
    type polaris_cm_fp_exec_t;
    files_type(polaris_cm_fp_exec_t)
    type polaris_flashcheck_exec_t;
    files_type(polaris_flashcheck_exec_t)
    type polaris_emd_exec_t;
    files_type(polaris_emd_exec_t)
    type polaris_ngwc_ishow_exec_t;
    files_type(polaris_ngwc_ishow_exec_t)
')

# Adding here as this unmount command is specific to Nyquist platform.
# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_unmount)
corecmd_exec_bin(polaris_ssd_unmount_t)
storage_getattr_fixed_disk_dev(polaris_ssd_unmount_t)
fsstools_domtrans(polaris_ssd_unmount_t)
mount_domtrans(polaris_ssd_unmount_t)
polaris_use_btrace_fifo(polaris_ssd_unmount_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_unmount_t)
polaris_chasfs_read(polaris_ssd_unmount_t)
polaris_cpld_read(polaris_ssd_unmount_t)
# Read /tmp/sw/boot files
polaris_boot_tmp_read(polaris_ssd_unmount_t)

# Allow read to btrace tmp files
polaris_btrace_tmppub_read(polaris_ssd_unmount_t)

# Allow getattr to tmpfs
fs_getattr_tmpfs(polaris_ssd_unmount_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device created by udev
polaris_read_ssd_tmp_files(polaris_ssd_unmount_t)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_ssd_unmount_tmp_t;
files_tmp_file(polaris_ssd_unmount_tmp_t)
files_tmp_filetrans(polaris_ssd_unmount_t, polaris_ssd_unmount_tmp_t, file)
manage_files_pattern(polaris_ssd_unmount_t, polaris_ssd_unmount_tmp_t, polaris_ssd_unmount_tmp_t)
allow polaris_ssd_unmount_t polaris_ssd_unmount_tmp_t:file { unlink };

# Allow nfs dir/file read
rpc_manage_nfs_state_data_dir(polaris_ssd_unmount_t)
rpc_manage_nfs_state_data(polaris_ssd_unmount_t)

# Allow read access to files on nfsd file system
fs_read_nfsd_files(polaris_ssd_unmount_t)
kernal_rw_rpc_sysctls(polaris_ssd_unmount_t)
fs_getattr_xattr_fs(polaris_ssd_unmount_t)

# allow create/sendto/connect operations for logger
allow polaris_ssd_unmount_t self:unix_dgram_socket sendto;
allow polaris_ssd_unmount_t self:unix_dgram_socket create_socket_perms;
logging_create_devlog_dev(polaris_ssd_unmount_t)
logging_send_syslog_msg(polaris_ssd_unmount_t)
polaris_persistent_getattr(polaris_ssd_unmount_t)

# allow dir:search getattr read for udev tmp files
# allow file:write open for udev tmp files
polaris_udev_tmp_manage(polaris_ssd_unmount_t)
gen_require(''
    type rsync_exec_t;
    type rsync_port_t;
'')

# allow tcp_socket:name_connect for rsync_port_t
# polaris_ssd_unmount_t has superset privileges of rsync, so its good
# to run rsync in unmount domain. This is not the case everywhere. Please use
# corenet_tcp_connect_rsync_port if rsync needs to be run in its own domain
allow polaris_ssd_unmount_t rsync_port_t:tcp_socket name_connect;

# allow file:get_attar exec read open map execute_no_trans for rsync_exec_t
allow polaris_ssd_unmount_t rsync_exec_t:file { execute execute_no_trans getattr map open read };

# allow dir:getattr for removable_t
polaris_getattr_removable(polaris_ssd_unmount_t)
')
ifdef('passport_platform',
  type polaris_auto_upgrade_server_rp_exec_t;
  files_type(polaris_auto_upgrade_server_rp_exec_t)
  type polaris_bt_logger_exec_t;
  files_type(polaris_bt_logger_exec_t)
  type polaris_cmnm_exec_t;
  files_type(polaris_cmnm_exec_t)
  type polaris_ngwc_plfm_mgr_exec_t;
  files_type(polaris_ngwc_plfm_mgr_exec_t)
  type polaris_sif_mgr_exec_t;
  files_type(polaris_sif_mgr_exec_t)
  type polaris_sif_mgr_exec_t;
  files_type(polaris_sif_mgr_exec_t)
  type polaris_torch_exec_t;
  files_type(polaris_torch_exec_t)
  type polaris_xcvr_test_exec_t;
  files_type(polaris_xcvr_test_exec_t)
  type polaris_faked_exec_t;
  files_type(polaris_faked_exec_t)
  type polaris_emd_exec_t;
  files_type(polaris_emd_exec_t)
  type polaris_ngwc_ishow_exec_t;
  files_type(polaris_ngwc_ishow_exec_t)
  type polaris_gr_mgr_exec_t;
  files_type(polaris_gr_mgr_exec_t)
  type polaris_ioxss_rp_exec_t;
  files_type(polaris_ioxss_rp_exec_t)
 )
ifdef('starfleet_platform',
  type polaris_xcvr_test_exec_t;
  files_type(polaris_xcvr_test_exec_t)
  type polaris_auto_upgrade_server_rp_exec_t;
  files_type(polaris_auto_upgrade_server_rp_exec_t)
  type polaris_bt_logger_exec_t;
  files_type(polaris_bt_logger_exec_t)
  type polaris_cmnm_exec_t;
  files_type(polaris_cmnm_exec_t)
  type polaris_ngwc_plfm_mgr_exec_t;
  files_type(polaris_ngwc_plfm_mgr_exec_t)
  type polaris_sif_mgr_exec_t;
  files_type(polaris_sif_mgr_exec_t)
  type polaris_torch_exec_t;
  files_type(polaris_torch_exec_t)
 )

type polaris_disk_ucode0_t;
  files_type(polaris_disk_ucode0_t);

type polaris_nplsm_power_file_t;
  polaris_pfile_type(polaris_nplsm_power_file_t)
open_source_used_in_cisco_identity_services_engine_3.2

#permission for /ucode0
optional_policy(
    gen_require(
        type polaris_periodic_t;
    )
    polaris_disk_icode0_read_lnk(polaris_periodic_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.te
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#

## <summary>Polaris cfgmgr Policy Rules.</summary>

###############################
## <summary>
##      Write cfmgr /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface(`polaris_cfgmgr_var_sock_write',
    gen_require(
        type polaris_cfgmgr_t;
        type polaris_cfgmgr_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_cfgmgr_var_run_t)
    allow $1 polaris_cfgmgr_t:unix_stream_socket { connectto };
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.if
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#  
# March 2017, Victor Kamensky
policy_module(polarisstackmgr, 1.0);

gen_require(' type polaris_stack_mgr_t; ')
polaris_btrace_data_manage(polaris_stack_mgr_t)
polaris_crft_data_manage(polaris_stack_mgr_t)
polaris_chasfs_manager(polaris_stack_mgr_t)
polaris_tdlresolve_read(polaris_stack_mgr_t)
polaris_tdlldb_list_dirs(polaris_stack_mgr_t)
polaris_cpld_read(polaris_stack_mgr_t)
polaris_lua_read(polaris_stack_mgr_t)
polaris_flashlib_read(polaris_stack_mgr_t)

polaris_ripe_sman_ui_serv_connect(polaris_stack_mgr_t)

polaris_db_tdlldb_dir_use(polaris_stack_mgr_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_stack_mgr_t)

allow polaris_stack_mgr_t self:capability { dac_override };

polaris_dynconfig_tmp_read(polaris_stack_mgr_t)

corecmd_exec_bin(polaris_stack_mgr_t)
corecmd_exec_shell(polaris_stack_mgr_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_stack_mgr_t)

# read /proc/cmdline
kernel_read_system_state(polaris_stack_mgr_t)

# open /dev/ttyS0 console in stack_console_write_init
term_use_unallocated_ttys(polaris_stack_mgr_t)

# on ngwc/vwlc FIPS code reads /tmp/hw_entropy
polaris_hw_entropy_use(polaris_stack_mgr_t)

# stackmgr runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris_stack_mgr_t)
# stack_mgr needs to be able to access /tmp/issu_stk/prst_sync_rld_info_prcsd
polaris_issu_stack_tmp_manage(polaris_stack_mgr_t)

# may use mcp_chvrf.sh to access other nodes in system.
# Note that we do not actually need to transition to the chvrf domain, however
# a file descriptor leak can occur and the domain transition permission macro
# expands to allow polaris_chvrf_t to access the fifo
polaris_chvrf_domtrans(polaris_stack_mgr_t)

# Allow read on bootflash to be able to read reload_history
polaris_bootflash_read(polaris_stack_mgr_t)

# stackmgr tmp files

type polaris_stack_mgr_tmp_t;
files_tmp_file(polaris_stack_mgr_tmp_t)
files_tmp_filetrans(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, file, "ngwc_reload_reason")
manage_files_pattern(polaris_stack_mgr_t, polaris_stack_mgr_tmp_t, polaris_stack_mgr_tmp_t)

allow polaris_stack_mgr_t self:capability sys_nice;
allow polaris_stack_mgr_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
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#
# January 2018, Manohar Hungund
#
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#

# polarisoctdplgrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplgrp.fc
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#
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris cedge_start Policy Rules.</summary>

Found in path(s):
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define(`polaris_mqipc_service_server_aux',`dnl
type $1;
polaris_mqipc_type($1)
polaris_mqipc_$2_create_name($3))

define(`polaris_mqipc_service_server',`dnl
polaris_mqipc_service_server_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl')

define(`polaris_mqipc_service_client_aux',`dnl
polaris_mqipc_$2_use($3))

define(`polaris_mqipc_service_client',`dnl
polaris_mqipc_service_client_aux(mqipc_label($1), mqipc_stem($1), process_label($2))dnl')

define(`polaris_mqipc_service_server_elastic_client',``)

# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris polarisqfp Policy Rules.</summary>


#### Work (read, write, ioctl) with /dev/netmap device

### Domain allowed access.
### <param>

#
interface('polaris_netmap_dev_use',
gen_require(''
type device_t;
type polaris_netmap_device_t;
')
write_chr_files_pattern($1, device_t, polaris_netmap_device_t)
read_chr_files_pattern($1, device_t, polaris_netmap_device_t)
allow $1 polaris_netmap_device_t:chr_file map;
')

########################################
## <summary>
## Work (read, write, ioctl) with /dev/svc_eng_puntNN devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_svc_eng_punt_dev_use',
gen_require(''
type device_t;
type polaris_sep_device_t;
')
write_chr_files_pattern($1, device_t, polaris_sep_device_t)
read_chr_files_pattern($1, device_t, polaris_sep_device_t)
')

########################################
## <summary>
## Allow access to semaphore with type polaris_qfp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_qfp_sem_use',
    gen_require(''
type polaris_qfp_t;
')
allow $1 polaris_qfp_t:sem rw_sem_perms;
')
interface('polaris_qfp_dgram_send',
      gen_require(''
        type polaris_qfp_t;
      ')
    )

allow $1 polaris_qfp_t:unix_dgram_socket sendto;
')

# CSR & C8KV infiniband devices in Azure
interface('polaris_infiniband_dev_use',
      gen_require(''
        type device_t;
        type polaris_infiniband_device_t;
      ')
      write_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
      read_chr_files_pattern($1, device_t, polaris_infiniband_device_t)
      allow $1 polaris_infiniband_device_t:chr_file map;
    ')

interface('polaris_iodbd_domtrans',
      gen_require(''
        type polaris_iodbd_t, polaris_iodbd_exec_t;
      ')
    )
corecmd_search_bin($1)
domtrans_pattern($1, polaris_iodbd_exec_t, polaris_iodbd_t)
### <summary>
### Manage files and directories under /tmp/iodb
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#

interface('polaris_iodb_tmp_manage',`
    gen_require('`
    type polaris_iodb_tmp_t;
    ');

manage_files_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)
manage_dirs_pattern($1, polaris_iodb_tmp_t, polaris_iodb_tmp_t)

fs_getattr(tmpfs($1))
`)

### <summary>
### Manage files and directories under /tmp/memif
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#

interface('polaris_qfp_memif_manage',`
    gen_require('`
    type polaris_qfp_memif_t;
    ');

manage_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
manage_sock_files_pattern($1, polaris_qfp_memif_t, polaris_qfp_memif_t)
    gen_require('`
    type tmp_t;
    ');

manage_dirs_pattern($1, { tmp_t polaris_qfp_memif_t }, polaris_qfp_memif_t)
allow $1 polaris_qfp_memif_t:file map;
`)

### <summary>
## polaris_qfp_log_manage

### <summary>
Name of the file being managed.
</summary>

### <param name="filename">
</param>

#

interface('polaris_qfp_log_manage',

type polaris_qfp_var_log_t;

logging_log_file(polaris_qfp_var_log_t)
logging_log_filetrans(polaris_qfp_t, polaris_qfp_var_log_t, file, $1)
manage_files_pattern(polaris_qfp_t, var_log_t, polaris_qfp_var_log_t)
')

# Work (read, write, ioctl) with /dev/icp_adf_ctl and /dev/icp_dev_mem devices

## <summary>
Domain allowed access.
</summary>

## <param name="domain">
</param>

#

interface('polaris_icp_dev_use',

gen_require(

type device_t;

type polaris_icp_device_t;
')

write_chr_files_pattern($1, device_t, polaris_icp_device_t)
read_chr_files_pattern($1, device_t, polaris_icp_device_t)
allow $1 polaris_icp_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/15/1615183271.1/0/selinux-tar/selinux/polarisqfp.if

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#
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#
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#
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.fc
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#
## <summary>Polaris cli_agent Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.if
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# # August 2017, Shawn Lu
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#

# polarisrogued file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.fc
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# # July 2017, Victor Kamensky
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## <summary>Polaris MCP Platform Policy Rules.</summary>

### Work (read, write, ioctl) with /dev/scooby

### <param name="domain">

Domain allowed access.

### </param>

```
interface(‘polaris_scooby_dev_use’,
gen_require(‘
    type device_t;
type polaris_scooby_device_t;
’)
     write_chr_files_pattern($1, device_t, polaris_scooby_device_t)
     read_chr_files_pattern($1, device_t, polaris_scooby_device_t)
’)
```

### Work (read, write, ioctl) with /dev/spa[0123]

### <param name="domain">

Domain allowed access.

### </param>

```
interface(‘polaris_spa_dev_use’,
gen_require(‘
    type device_t;
type polaris_spa_device_t;
’)
     write_chr_files_pattern($1, device_t, polaris_spa_device_t)
     read_chr_files_pattern($1, device_t, polaris_spa_device_t)
     allow $1 polaris_spa_device_t:chr_file map;
’)
```

### Work (read, write, ioctl) with /dev/htdp[0-9]*

### <param name="domain">
## <summary>
## Domain allowed access.
## </summary>

```c
interface('polaris_htdp_dev_use',
    gen_require(
        type device_t;
        type polaris_htdp_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_htdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_htdp_device_t)
)
```


## <summary>
## Work (read, write, ioctl) with /sys/devices/virtual/sys_platform
## </summary>

```c
interface('polaris_sysfs_platform_dev_use',
    gen_require(
        type polaris_sysfs_platform_t;
    )
    manage_files_pattern($1, polaris_sysfs_platform_t, polaris_sysfs_platform_t)
)
```


## <summary>
## Work (read, write, ioctl) with /dev/ds31408
## </summary>

```c
interface('polaris_ds31408_dev_use',
    gen_require(
        type device_t;
        type polaris_ds31408_device_t;
    )
    rw_chr_files_pattern($1, device_t, polaris_ds31408_device_t)
)
```
## <summary>
## Allow access to /dev/cbdma
##</summary>
## <param name="domain">
## Domain allowed access.
##</param>
#
# interface('polaris_cbdma_dev_use',
  gen_require(
    type device_t;
    type polaris_cbdma_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
  read_chr_files_pattern($1, device_t, polaris_cbdma_device_t)
  allow $1 polaris_cbdma_device_t:chr_file map;
')

## <summary>
## Allow access to /dev/cpp_htdp
##</summary>
## <param name="domain">
## Domain allowed access.
##</param>
#
# interface('polaris_cpp_htdp_dev_use',
  gen_require(
    type polaris_cpp_htdp_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
  read_chr_files_pattern($1, device_t, polaris_cpp_htdp_device_t)
  allow $1 polaris_cpp_htdp_device_t:chr_file map;
')

## <summary>
## Allow access to /dev/n2_device
##</summary>
## <param name="domain">
## Domain allowed access.
##</param>
# interface('polaris_n2_dev_use';
    gen_require(
        type device_t;
        type polaris_n2_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_n2_device_t)
    read_chr_files_pattern($1, device_t, polaris_n2_device_t)
)

########################################
## <summary>
##      Allow access to /dev/cy2213
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_cy2213_dev_use';
    gen_require(
        type device_t;
        type polaris_cy2213_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
    read_chr_files_pattern($1, device_t, polaris_cy2213_device_t)
)

########################################
## <summary>
##      Allow access to /dev/vega
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vega_dev_use';
    gen_require(
        type device_t;
        type polaris_vega_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_vega_device_t)
    read_chr_files_pattern($1, device_t, polaris_vega_device_t)
### <summary>
### Work (read, write, ioctl) with /dev/dash_fpga device
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

```
interface('polaris_dash_dev_mcp_use',
    gen_require(
        type device_t;
        type polaris_dash_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_dash_device_t)
    read_chr_files_pattern($1, device_t, polaris_dash_device_t)
    allow $1 polaris_dash_device_t:chr_file map;
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.if
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dnl

dnl April 2018, Victor Kamensky

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dnl Crankshaft (Overlord, Utah and Fugazi) Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 3)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 3)

max_bay_ripc_map_set(`rp', `per_bay', 3)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 3)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/mcpmaps.m4
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#

# March 2017, Victor Kamensky

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policy_module(polarisiosd, 1.0);

gener_require(
    type polaris_iosd_t;
)

ifdef('nyquist_platform',
    type polaris_bt_logger_iosd_mqipc_t;
)

# iosd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_iosd_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
)

polaris_btrace_data_manage_all(polaris_iosd_t)
polaris_chasfs_manage(polaris_iosd_t)
polaris_tdlresolve_read(polaris_iosd_t)
polaris_tdlldb_list_dirs(polaris_iosd_t)
polaris_cpld_read(polaris_iosd_t)
polaris_lua_read(polaris_iosd_t)
polaris_flashlib_read(polaris_iosd_t)
polaris_crft_data_manage_all(polaris_iosd_t)
optional_policy(
    polaris_gnmib_gnoi_images_manage(polaris_iosd_t)
)

polaris_ripc_sman_ui_serv_connect(polaris_iosd_t)
polaris_db_tdlldb_dir_use(polaris_iosd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iosd_t)

# allow iosd read/write via hostname <>
systemd_hostnamed_manage_config(polaris_iosd_t)

# creates /etc/netns/1/resolv.conf via ip domain-name <> command
# creates /etc/netns/vrf.VRFNAME via ip vfr VRFNAME command
# creates /etc/netns/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VRFNAME <> command
gener_require(
    type net_conf_t;
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_iosd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_iosd_t, net_conf_t, dir, "netns")
sysnet_manage_config(polaris_iosd_t)
sysnet_manage_config_dirs(polaris_iosd_t)

# for pluggable FS, allow iosd to access files on them.
polaris_getattr_removable(polaris_iosd_t)
polaris_removable_manage(polaris_iosd_t)
fs_read_removable_symlinks(polaris_iosd_t)

polaris_lsmpi_dev_use(polaris_iosd_t)
polaris_lsmpi_sysctl_read(polaris_iosd_t)
polaris_cfg_data_manage(polaris_iosd_t)
polaris_proc_rmonbifo_read(polaris_iosd_t)
polaris_icc_broken_relocations(polaris_iosd_t)

allow polaris_iosd_t self:capability { sys_nice chown fsetid sys_rawio dac_override dac_read_search ipc_lock };
polaris_cpp_tmp_ifdev_use(polaris_iosd_t)

polaris_dyncfg_tmp_read(polaris_iosd_t)

# lsmpi_fetch_linux_ifindex tries to ioctl(skfd, SIOCGIFINDEX, &ifr) on
# non existent ethN interface, as result kernel triggers attempt to
# load kernel module that would correspond to such interface. Deny
# and don't audit iosd_t attempt to load kernel modules.
# LOOK AT ME: in long term we don't want iosd even try to load modules
# and we would actually would want to report and fail such
kernel_dontaudit_request_load_module(polaris_iosd_t)

# iosd calls nice function to change fast path priority (mcp_fastpath_thread_func)
allow polaris_iosd_t self:process setsched;

ifdef(`crankshaft_family',`
ifconfig_attach_tun_iface(polaris_iosd_t)
corennet_rw_tun_tap_dev(polaris_iosd_t)
')

ifdef(`mcp_family',`
ifconfig_attach_tun_iface(polaris_iosd_t)
corennet_rw_tun_tap_dev(polaris_iosd_t)
allow polaris_iosd_t polaris_iosd_t:tun_socket relabelfrom;
')

# on ultra iosd is figuring out parameters of interfaces of underlying
# hypervisors kvm, vmware, etc. See vxe_gethd_ifdb_scan
ifdef(`crankshaft_family',`
dev_rw_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
')

ifdef(`vxe_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
')

ifdef(`vwlc_platform',`
polaris_disk_objstore_manage(polaris_iosd_t)
optional_policy(`
    polaris_vwlc_grub_efi_use(polaris_iosd_t)
')`
)

ifdef(`wl_family',`
dev_read_sysfs(polaris_iosd_t)
polaris_tlscd_uds_manage(polaris_iosd_t)
gen_require(`

---

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type polaris_tlsccd_t;

allow polaris_iosd_t polaris_tlsccd_t:unix_dgram_socket sendto;

# on 1ng mcppc-lc-ms reads /sys/devices/system/cpu/online
ifdef(`mcp_family',`
dev_read_sysfs(polaris_iosd_t)
')

# neptune need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`neptune_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# radium need to figure fan type by reading
# /sys/bus/platform/devices/nios/n2h_fan_ctrl_fan_tray_status
ifdef(`radium_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
dev_read_sysfs(polaris_iosd_t)
')

ifdef(`supernova_platform',`
dev_read_sysfs(polaris_iosd_t)
')

# work with /tmp/boottime, /tmp/booted files: create/write
type polaris_iosd_tmp_files_t;
files_tmp_file(polaris_iosd_tmp_files_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "boottime")
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, file, "booted")
create_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)

#allow polaris_iosd_t polaris_uudev_tmp_files_t:dir { getattr open read search };
#allow polaris_iosd_t polaris_uudev_tmp_files_t:file { open, read, write };
# LOOK AT ME (need to review write access with iosd team)
polaris_udev_tmp_manage(polaris_iosd_t)

# work with /tmp/restconf
type polaris_restconf_tmp_files_t;
files_tmp_file(polaris_restconf_tmp_files_t)
polaris_restconf_tmp_use(polaris_iosd_t)

files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_files_t, dir, "restconf")
filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_files_t, polaris_restconf_tmp_files_t, file)

# work with /tmp/netio0
files_tmp_filetrans(polaris_iosd_t, polaris_iosd_tmp_files_t, dir, "netio0")
# sockets and dirs created under /tmp/netio0
manage_dirs_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
manage_sock_files_pattern(polaris_iosd_t, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow polaris_iosd_t self:unix_dgram_socket create_socket_perms;

gen_require('type inetd_child_t;
')
# sendto permission for /tmp/netio0/ttyC100
allow polaris_iosd_t inetd_child_t:unix_dgram_socket sendto;
polaris_socketat_nsfs_read(polaris_iosd_t)

# onep uses TIPC sockets see onep_tipc_transport_start
allow polaris_iosd_t self:socket { bind create listen accept getattr read write ioctl getopt setopt }; # mcp_eobc_create_socket creates UDP socket for eobc
corenet_udp_bind_polaris_iosd_eobc_port(polaris_iosd_t)
gen_require('type node_t;
')
allow polaris_iosd_t node_t:udp_socket node_bind;
allow polaris_iosd_t self:udp_socket { bind create ioctl setopt read write };

# direct access to serial TTY devices like /dev/ttyS1
term_use_unallocated_ttys(polaris_iosd_t)

# on ultra cvac_load_config function tried to access cdrom0:/iosxe_config.txt
# and if exists read
ifdef('vxe_family','
fs_read_iso9660_files(polaris_iosd_t)
')
ifdef('wlc_family','
fs_read_iso9660_files(polaris_iosd_t)
')

# ifs_get_free_bytes invokes mcp_fs_statfs and eventually mcp_wrapper_statvfs
# with "/bootflash"...this needs attr access for "/"
fs_getattr_xattr_fs(polaris_iosd_t)

# iosd works with cpp /dev/shm/cpifdev_shmem shared mmemory
optional_policy('polaris_cpp_tmpfs_ifdev_rw(polaris_iosd_t)
')

# iosd reads/writes into grubenv for confreg
optional_policy('
polaris_grub_efi_use(polaris_iosd_t)
')

#define when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;

#define mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

#define Need this for bluetooth to work. HCI library uses this
allow polaris_iosd_t self:capability net_raw;

ifdef(`mcp_family',
polaris_obfl_data_read(polaris_iosd_t)
')

#define iosd uses quack on mcp and crankshaft and ngwc
ifdef(`mcp_family',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`crankshaft_family',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`ngwc_family',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`qwlc_platform',
polaris_quack_dev_use(polaris_iosd_t)
')
ifdef(`katar_platform',
polaris_quack_dev_use(polaris_iosd_t)
')

ifdef(`mcp_family',
polaris_spa_dev_use(polaris_iosd_t)
polaris_sysfs_platform_dev_use(polaris_iosd_t)
')

#define on 1ng write/ioctl into /dev/cpld-ha
#define on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(`
polaris_cpld_dev_use(polaris_iosd_t)
')

#define deals with /dev/shm files semaphors; like uuid_sem semaphore
#define created by btrace_get_uuid function
type polaris_iosd_tmpfs_t;
files_tmpfs_file(polaris_iosd_tmpfs_t)
fs_tmpfs_filetrans(polaris_iosd_t, polaris_iosd_tmpfs_t, file)
manage_files_pattern(polaris_iosd_t, tmpfs_t, polaris_iosd_tmpfs_t)

optional_policy(
polaris_iodb_tmp_manage(polaris_iosd_t)
)

# on ngwc FIPS code reads /tmp/hw_entropy
# seems like iosd can delete the file as well
polaris_hw_entropy_create(polaris_iosd_t)

optional_policy(
#on macallan iosd needs to access /dev/cpld
polaris_cpld_dev_read(polaris_iosd_t)
)

# on tsn iosd needs write access to
# sys/devices/platform/cpld/reg_rp_reset_button_status
# sys/devices/platform/cpn-110-master DSR/DTR status
ifdef(`crankshaft_family',`
type polaris_quake_i2c_t;
polaris_cpld_write(polaris_iosd_t)
polaris_ggpio_dev_read_write(polaris_iosd_t)
polaris_quake_i2c_manage(polaris_iosd_t)
')

ifdef(`katar_platform',`
polaris_cpld_write(polaris_iosd_t)
')

# on tsn iosd needs access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/led_status
optional_policy(
polaris_mokafpga_rw(polaris_iosd_t)
')

# iosd reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_iosd_t)

# iosd needs manage_dirs, manage_files and manage_lnk
# permissions at "/tmp/ufs/lic0/<remote_ip>/*"
optional_policy(
polaris_ncd_tmp_manage(polaris_iosd_t)
')

# access NFS mounted directories from other nodes or members
fs_getattr_nfs(polaris_iosd_t)

# mcp/mcprp/if_unix_se.c code works with /sys/devices/virtual/contdev
# files and /proc/net/dev
polaris_manage_contdev_dev(polaris_iosd_t)
kernel_read_network_state(polaris_iosd_t)

# iosd creates /tmp/iox_xml.dat file
optional_policy(
    polaris_iox_manage_tmp_files(polaris_iosd_t)
)

polaris_caf_var_run_files_manage(polaris_iosd_t)
container_read_lib_files(polaris_iosd_t)

# work with files like /tmp/rp/.shell_exec.5B1BF1D7648E21AEE30000002
  type polaris_iosd2iox_tmp_t;
  files_tmp_file(polaris_iosd2iox_tmp_t)
  files_tmp_filetrans(polaris_iosd_t, polaris_iosd2iox_tmp_t, file)
  polaris_iosd2iox_tmp_manage(polaris_iosd_t)
# work with response
optional_policy(
    polaris_iox2iosd_tmp_manage(polaris_iosd_t)
)

polaris_sandbox_file_dir_list(polaris_iosd_t)

# lfts 2.0 iosd provides route information to kernel. it talks
# using generic netlink family socket. See iosd bsock_sar_netlink_process
# process
allow polaris_iosd_t self:netlink_generic_socket create_socket_perms;
allow polaris_iosd_t self:netlink_socket create_socket_perms;

# LOOK AT ME
# on nyquist iosd accesses files like lic0-2:/sanosync.data.readLock
# from saLockCheck function and it happens just right after lic0-2 was
# mounted over NFSv4. It seems that labels from remote node did not
# take an effect yet. For now allow access to dir and files that
# are not yet labeled.
ifdef(`nyquist_platform',`
    files_manage_isid_type_dirs(polaris_iosd_t)
    files_manage_isid_type_files(polaris_iosd_t)
    )

ifdef(`ngwc_family',`
    polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
    #policy needed for accessing sys/bus/usb/drivers/usb/*/authorized
    dev_rw_sysfs(polaris_iosd_t)
)
ifdef(`passport_platform',
polaris_cm_rp_tmp_manage(polaris_iosd_t)
')

polaris_lfts_dev_use(polaris_iosd_t)

# /dev/shm/vrf_shm access for show command
polaris_vrf_shm_manage(polaris_iosd_t)

# /dev/shm/sdm access
optional_policy('polaris_sdm_shm_manage(polaris_iosd_t)
')

# iosd needs access to logging facility
logging_send_syslog_msg(polaris_iosd_t)

# iosd need access to /webui/*.odm files
polaris_read_webui_files(polaris_iosd_t)

# allow getting binos networking stats AF_NETLINK
allow polaris_iosd_t self:netlink_route_socket rw_netlink_socket_perms;

# confd needs to talk with IOSd via real linux udp snmp socket
allow polaris_iosd_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_snmp_port(polaris_iosd_t)

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphor created by qfp process
ifdef(`vxe_family',
polaris_qfp_sem_use(polaris_iosd_t)
')
ifdef(`wlc_family',
polaris_qfp_sem_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
')

# lsmpi replacement punt/inject over domain sockets
ifdef(`vxe_family',
polaris_pi_uds_manage(polaris_iosd_t)
polaris_qfp_dgram_send(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
')
# CSR when operating in VGA mode uses /dev/tty0 as the console for the system
# (including IOSD). IOSD setup scripts pass in the tty device(s) to use in the
# REAL_CONSOLE and REAL_AUX environment variables. IOSD configures the tty
# for its operation and hence need the capability.
allow polaris_iosd_t self:capability sys_tty_config;

# LOOK AT ME: hot patch upon a reboot requires execmem operation - which
# currently is not allowed. Remove the following policy when CSCvq59763
# has been completed.
allow polaris_iosd_t self:process execmem;

# /dev/epaN on qwlc/asr1k(mcp)
optional_policy(`
polaris_epa_dev_use(polaris_iosd_t)
`)

# /dev/qae_mem device access on overlord
optional_policy(`
polaris_qae_dev_use(polaris_iosd_t)
`)

# ioucon binary invoked on standby console attach.
polaris_ioucon_dgram_send(polaris_iosd_t)

# usb device requires read permissions.
kernread_debugfs(polaris_iosd_t)

# iosd requires access to /tmp/sv
ifdef(`ngwc_family',`
polaris_sv_tmp_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenetsw_tun_tap_dev(polaris_iosd_t)
`)
polaris_i2c_use(polaris_iosd_t)

# on CSR AWS deployment iosd needs read access to /dev/console
term_read_console(polaris_iosd_t)

# On vxe platforms the cloudint config is stored in /varied. We need
# to be able to read it.
ifdef(`vxe_family',`
polaris_disk_varied_read(polaris_iosd_t)
`)

# In stacked and ha setup secondary SUP bootflash and hardisk
# are mounted on active and is accessed by iosd.
polaris_getattr_bootflash(polaris_iosd_t)
polaris_getattr_harddisk(polaris_iosd_t)

# read access to /dev/random
dev_read_rand(polaris_iosd_t)

# Allow access of /tmp/maroon_stats files
polaris_maroon_data_manage_all(polaris_iosd_t)

#access to /dev/bp_async device on nanook platform
optional_policy(`
polaris_bp_async_dev_use(polaris_iosd_t)
')

#Permission for access file attribute to list the file info
polaris_caf_tmp_files_getattr(polaris_iosd_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_iosd_t)
polaris_tmp_tdldb_persist_setup(polaris_iosd_t)

# IOSCC needs access to /mnt/firmware for intelligent spa during bootup
polaris_firmware_read(polaris_iosd_t)

# On Sparrow platform: IOSd requires access to /dev/remap_mem0
# and /dev/usb_console for OOB management
# Also allows access to /dev/sparrow_psu and /dev/net/tun
# /dev/shm/sem._dev_i2c_0 sempahor
ifdef(`sparrow_platform',`
    gen_require(`
        type polaris_cm_cc_tmpfs_t;
    ')
polaris_remap_mem_dev_use(polaris_iosd_t)
term_use_usb_ttys(polaris_iosd_t)
polaris_sparrow_psu_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

# On Blackheart platform: /dev/shm/sem._dev_i2c_0 sempahor
# Allow access to /tmp/udev/etc/udev/msata/udev-info and /dev/net/tun
# Allow access to /dev/remap_mem0 for alarm port
ifdef(`blackheart_platform',`
gendemand(`
    type polaris_cm_cc_tmpfs_t;
')
polaris_udev_access(polaris_iosd_t)
polaris_remap_mem_dev_use(polaris_iosd_t)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
nmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)

# handle /tmp/rp/.iosp_client_app token
type polaris_iosp_client_app_token_t;
files_tmp_file(polaris_iosp_client_app_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_app_token_t, file, ".iosp_client_app")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_app_token_t, polaris_iosp_client_app_token_t)

# handle /tmp/rp/.iosp_client_dmi token
type polaris_iosp_client_dmi_token_t;
files_tmp_file(polaris_iosp_client_dmi_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_iosp_client_dmi_token_t, file, ".iosp_client_dmi")
manage_files_pattern(polaris_iosd_t, polaris_iosp_client_dmi_token_t, polaris_iosp_client_dmi_token_t)

# handle /tmp/rp/.iosp_dmiauthd token
type polaris_dmiauthd_token_t;
files_tmp_file(polaris_dmiauthd_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_dmiauthd_token_t, file, ".iosp_dmiauthd")
manage_files_pattern(polaris_iosd_t, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)

# handle /tmp/rp/.iosp_gnmib token
type polaris_gnmib_token_t;
files_tmp_file(polaris_gnmib_token_t)
files_tmp_filetrans(polaris_iosd_t, polaris_gnmib_token_t, file, ".iosp_gnmib")
manage_files_pattern(polaris_iosd_t, polaris_gnmib_token_t, polaris_gnmib_token_t)
polaris_udev_tmp_watch(polaris_iosd_t)

# Interfaces needed for Aventus platform, allow access to
# /dev/shm/sem_dev_i2c_0 sempahor
# /dev/usb_console for OOB management
# /dev/net/tun
# brctl process needs access to fifo_file
ifdef(`aventus_platform`,
gen_require(`
  type brctl_t;
  type polaris_pman_t;
  type polaris_cm_cc_tmpfs_t;
  type ifconfig_t;
  type polaris_i2c_device_t;
`)
polaris_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenw_tun_tap_dev(polaris_iosd_t)
term_use_usb_tty(polaris_iosd_t)
allow brctl_t polaris_pman_t:fifo_file append;
mmap_files_pattern(polaris_iosd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
allow ifconfig_t polaris_i2c_device_t:chr_file { read write );
')

# allow access and modify files in /tftp/inv directory
# TODO Need to revisit this for further analysis
ifdef(`mcp_family',`
gen_require(
    type tftpdir_rw_t;
)
read_files_pattern(polaris_iosd_t, tftpdir_rw_t, tftpdir_rw_t)
')

#allow access and modify awips file in /bootflash
gen_require(
    type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_iosd_t polaris_awips_signature_file_t:file { write create read open getattr unlink};

# handle geodb file access
type polaris_geodb_files_t;
polaris_disk_type(polaris_geodb_files_t)
filetrans_pattern(polaris_iosd_t, polaris_disk_bootflash_t, polaris_geodb_files_t, dir, ".geo")
filetrans_pattern(polaris_iosd_t, polaris_disk_harddisk_t, polaris_geodb_files_t, dir, ".geo")
polaris_geodb_files_manage(polaris_iosd_t)

# handle /var/ip_local_port_range
type polaris_ip_linux_port_var_t;
files_tmp_file(polaris_ip_linux_port_var_t)
files_var_filetrans(polaris_iosd_t, polaris_ip_linux_port_var_t, file, "ip_local_port_range")

# linux_iosd-imag access to file /var/ip_local_port_range
manage_files_pattern(polaris_iosd_t, var_t, polaris_ip_linux_port_var_t)

# Allow access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_iosd_t)

# command "ls" on /var/ip_local_port_range
gen_require(
    type polaris_shell_t;
')
allow polaris_shell_t polaris_ip_linux_port_var_t:file getattr;
# handling /boot/vcpu_template.txt or /csl_p_0/vcpu_template.txt file
# created by iosd by platform resource config command

type polaris_iosd_vcpu_t;
files_type(polaris_iosd_vcpu_t)
gen_require('type polaris_disk_csl_p_t;
type polaris_disk_varied_t;
')
filetrans_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t, file, "vcpu_template.txt")
manage_files_pattern(polaris_iosd_t, { polaris_disk_csl_p_t polaris_disk_varied_t }, polaris_iosd_vcpu_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_iosd_t)
fs_search_cgroup_dirs(polaris_iosd_t)

# for Dynamic Core Allocation IOSd needs write access to cpu sets/shares
ifdef('crankshaft_family','
fs_write_cgroup_files(polaris_iosd_t)
')

# sdwan_admintech_generate() creates admintech and admintech_trace files

gen_require('type polaris_admin_tech_data_t;
')
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_admin_tech_data_t, file, "admintech_trace")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_done")
filetrans_pattern(polaris_iosd_t, polaris_chasfs_t, polaris_admin_tech_data_t, file, "ios_admintech_request")
polaris_admin_tech_data_manage(polaris_iosd_t)

# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_iosd_t)
allow polaris_iosd_t polaris_user_file_t:file { open unlink };

# petra platform
ifdef('petra_platform','

# iosd need access to petra fpga
polaris_iots_fpga_dev_use(polaris_iosd_t)

# iosd need access to memory devices
polaris_iots_tm_dev_use(polaris_iosd_t)

#allow map permission for /dev/shm/TM_A53_APIs
allow polaris_iosd_t polaris_iots_tmpfs_t:file map;

#allow access to polaris_cm_r_p_t sem
polaris_cm_r_p_sem_use(polaris_iosd_t)

#allow access to userio
dev_rw_userio_dev(polaris_iosd_t)
allow polaris_iosd_t userio_device_t:chr_file { map };

#iosd need access to sysfs

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dev_rw_sysfs(polaris_iosd_t)
allow polaris_iosd_t sysfs_t:file { create map }

dev_manage_sysfs_dirs(polaris_iosd_t)
# iosd need access to sdflash files image is stored
polaris_swipedriver_file_manage(polaris_iosd_t)
polaris_getattr_swipedriver(polaris_iosd_t)
# iosd need access to mmcblk0p3

gen_require(
  type polaris_disk_recovery_t;
')
allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
# iosd need access to mmcblk0p2
polaris_getattr_filesystem_disk_ucode(polaris_iosd_t)
# iosd need access to /dev/mvDmaDrv
polaris_mvDmaDrv_dev_use(polaris_iosd_t)
# iosd need access to /dev/mvIntDrv
polaris_mvIntDrv_dev_use(polaris_iosd_t)
# iosd need permission for LED
polaris_led_dev_use(polaris_iosd_t)
# iosd need access to rawip socket by initscripts/rc.d/init.d/iptables
allow polaris_iosd_t self:rawip_socket create_socket_perms;
# iosd needs access to /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_iosd_t)
# iosd need permission to /dev/rtc0 done via imsp_update_sw_hwclock()
dev_rw_realtime_clock(polaris_iosd_t)
')
# work with /tmp/usb-disable: create/write
type polaris_iosd_usb_disable_tmp_t;
files_tmp_file(polaris_iosd_usb_disable_tmp_t);
polaris_iosd_usb_disable_tmp_manage(polaris_iosd_t)

ifdef(`ngwc_family',`
# SELINUX Mismatch warning when doing power redundancy configuration commands
# Allow access /bootflash/nplusm-power
polaris_nplusm_power_manage(polaris_iosd_t)
')

optional_policy(
  polaris_efi_files_list_dirs(polaris_iosd_t)
')

# work with /dev/shm/mq.-iosd_to_timingd
type polaris_iosd_timing_mqipc_t;
polaris_mqipc_type(polaris_iosd_timing_mqipc_t)
polaris_mqipc_create_name(polaris_iosd_t, polaris_iosd_timing_mqipc_t, iosd_to_timingd)

# watch /tmp
allow polaris_iord_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.te
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
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#

### <summary>Polaris oct_dp_log_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.t"f
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris cedge Policy Rules.</summary>

##############################################################################
### <summary>
###      Manage /tmp/xml files and directories
### </summary>
### <param name="domain">
###      <summary>
###      Domain allowed access.
### </summary>
### </param>
#
interface('polaris_cedge_xml_tmp_manage',
    gen_require(
        type polaris_cedge_xml_tmp_t;
    ')
manage_dirs_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
manage_files_pattern($1, polaris_cedge_xml_tmp_t, polaris_cedge_xml_tmp_t)
files_tmp_filetrans($1, polaris_cedge_xml_tmp_t, dir, "xml")

allow $1 polaris_cedge_xml_tmp_t:dir { watch mounton };
allow $1 polaris_cedge_xml_tmp_t:file map;
## <summary>
##      Manage /tmp/tmp files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_tmp_manage',
    gen_require(
        type polaris_cedge_tmp_t;
    )
    manage_dirs_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    manage_files_pattern($1, polaris_cedge_tmp_t, polaris_cedge_tmp_t)
    files_tmp_filetrans($1, polaris_cedge_tmp_t, dir, "tmp")
)

## <summary>
##      Manage /etc/viptela files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_etc_manage',
    gen_require(
        type polaris_cedge_etc_t;
    )
    manage_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    manage_lnk_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
)

## <summary>
##      Read /etc/viptela files and directories
## </summary>
## <param name="domain">
##      <summary>
### Domain allowed access.

### <summary>

### </summary>

### </param>

#

interface('polaris_cedge_etc_read',`
    `
generate_require(`
    type polaris_cedge_etc_t;
    `)
    search_dirs_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    read_link_files_pattern($1, polaris_cedge_etc_t, polaris_cedge_etc_t)
    files_etc_filetrans($1, polaris_cedge_etc_t, dir, "viptela")
    `)

#################################################################

### <summary>

### Watch cedge_etc directories and files

### </summary>

### <param name="domain">

### <summary>

### Domain allowed access.

### </summary>

### </param>

### <rolebase/>

#

interface('polaris_cedge_etc_watch',`
    `
generate_require(`
    type polaris_cedge_etc_t;
    `)
    allow $1 polaris_cedge_etc_t:{ dir file } watch;
    `)

#################################################################

### <summary>

### Read access /var/run/netns/* performed from vip_util_set_ns

### </summary>

### <param name="domain">

### <summary>

### Domain allowed access.

### </summary>

### </param>

#

interface('polaris_cedge_set_ns',`
    init_read_state($1)
    fs_read_nsfs_files($1)
    sysnet_manage_ifconfig_run($1)
    `)
<summary>
Read access /proc/1/ns/net performed from vip_util_reset_ns
</summary>

<param name="domain">
  Domain allowed access.
</param>

interface('polaris_cedge_reset_ns',
  init_read_state($1)
)

<summary>
Manage /dev/shm viptela files
</summary>

<param name="domain">
  Domain allowed access.
</param>

interface('polaris_cedge_tmpfs_manage',
  gen_require(
    type polaris_cedge_tmpfs_t;
    type tmpfs_t;
  )
  fs_tmpfs_filetrans($1, polaris_cedge_tmpfs_t, file)
  manage_files_pattern($1, tmpfs_t, polaris_cedge_tmpfs_t)
  allow $1 polaris_cedge_tmpfs_t:file map;
)

<summary>
Manage /tmp/.econfd2sysmgr-ipc files and directories
</summary>

<param name="domain">
  Domain allowed access.
</param>

interface('polaris_econfd2sysmgr_tmp_manage',
  gen_require(
    type polaris_econfd2sysmgr_tmp_t;
  )
)
manage_dirs_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
manage_files_pattern($1, polaris_econfd2sysmgr_tmp_t, polaris_econfd2sysmgr_tmp_t)
files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
allow $1 polaris_econfd2sysmgr_tmp_t:dir watch;

###################
## <summary>
## Manage /tmp/* labeled with polaris_vconfd_cert_tmp_t
## for vconfd_script_upload_root_ca_crt_chain.sh to access
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_vconfd_cert_tmp_manage';
gen_require(`
type polaris_vconfd_cert_tmp_t;
')
manage_dirs_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
manage_files_pattern($1, polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t)
')

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#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris cpp_driver Policy Rules.</summary>

########################################################################
## <summary>
## Allow access to semaphore with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_cpp_driver_sem_use',
    gen_require(
        type polaris_cpp_driver_t;
    ),
    allow $1 polaris_cpp_driver_t:sem rw_sem_perms;
    )

########################################
## <summary>
## Allow access to shared memory with type polaris_cpp_driver_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_cpp_driver_shm_use',
    gen_require(
        type polaris_cpp_driver_t;
    ),
    allow $1 polaris_cpp_driver_t:shm rw_shm_perms;
    )

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#
#
## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

##################################################
## <summary>
## Execute auto-upgrade scripts in their own domain
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_autoupgrade_domtrans',
    gen_require(
        type polaris_autoupgrade_t;
        type polaris_autoupgrade_exec_t;
    )
)

domtrans_pattern($1, polaris_autoupgrade_exec_t, polaris_autoupgrade_t)

#<summary>Manage tmp files created by autoupgrade.</#</summary>
# <param name="domain">
#   Domain allowed access.
# </param>
# <rolecap/>
#
interface('polaris_autoupgrade_tmp_manage',
    gen_require(
        type polaris_autoupgrade_tmp_t;
    )
)

manage_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_link_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_fifo_files_pattern($1, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

Found in path(s):
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#
# October 2019, Patrick O'Halloran
#
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#
## <summary>Polaris CRFT Policy Rules.</summary>

# CRFT policy


## <summary>
## Allow read-only access to CRFT generated files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

## <param name="file_type">
## File type of crft that corresponds to given domain.
## </param>

#

```c
interface('polaris_crft_data_read',
    gen_require('type polaris_crft_data_t;
type polaris_crft_request_t;
type polaris_crft_request_crft_t;
')

read_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
read_files_pattern($1, polaris_crft_request_crft_t, polaris_crft_request_crft_t)
allow $1 polaris_crft_request_t:fifo_file { ioctl write };
')
```

#######################################

## <summary>
## Manage crft persistent files
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#

```c
interface('polaris_crft_data_manage',
    gen_require('type polaris_crft_data_t;
')

manage_dirs_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_t)
```
# Note: Based on discussion with SElinux team, we need to call this
# out specifically here for lnk file access, as:
# - NGWC /harddisk -(symlink)-> /misc/scratch -(symlink)-> /mnt/sda3/user
# polaris_disk_bootflash_read_lnk($1)
# polaris_disk_harddisk_read_lnk($1)
# allow $1 polaris_crft_data_t:file map;
#

### <summary>
### Manage crft files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface('polaris_crft_data_manage_all',
# polaris_crft_data_manage($1)
#
# gen_require('attribute polaris_crft_data_domain;
type polaris_crft_data_t;
')

manage_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
manage_lnk_files_pattern($1, polaris_crft_data_t, polaris_crft_data_domain)
allow $1 polaris_crft_data_domain:file map;

### <summary>
### Make the specified type usable as crft data file type.
### </summary>
### <param name="type">
### Type to be used for files.
### </param>
#
# interface('polaris_crft_data_type',
# files_type($1)
polaris_pfile_type($1)
gen_require('attribute polaris_crft_data_domain;
')
type attribute $1 polaris_crft_data_domain;
')

########################################################################
## <summary>
##   Process to manage its own crft files
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <param name="file_type">
##   <summary>
##      File type of crft that corresponds to given domain.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_crft_data_client',
   gen_require(
       type polaris_crft_data_t;
   ')

manage_dirs_pattern($1, polaris_crft_data_t, $2)
manage_files_pattern($1, polaris_crft_data_t, $2)
manage_lnk_files_pattern($1, polaris_crft_data_t, $2)
filetrans_pattern($1, polaris_crft_data_t, $2, file)
allow $1 $2:file map;
')

########################################################################
## <summary>
##   Process to manage its own crft files
## </summary>
## <param name="domain_stem">
##   <summary>
##      Steam of domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface('polaris_crft_data_client_template',
   gen_require(
       attribute polaris_crft_data_domain;
       type polaris_crft_data_t;
   ')}
type polaris_$1_crf_t;
polaris_crf_data_type(polaris_$1_crf_t)
  polaris_crf_data_client(polaris_$1_t, polaris_$1_crf_t)
')

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#

/usr/cpp/bin/cpp_ha_top_level_server -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_us_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)
/usr/cpp/bin/cpp_ha_top_level_server_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_ha_exec_t,s0)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.fc
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#

policy_module(polariscfg, 1.0);

*****************************************************************************
# Cfg files policy
*****************************************************************************

type polaris_cfg_data_t;
files_type(polaris_cfg_data_t)

  gen_require(
    attribute polaris_extended_domain;
  )

  files_tmp_filetrans(polaris_extended_domain, polaris_cfg_data_t, dir, "cfg")
polaris_utility_domain_template(cfg_sync)

polaris_bexecute_domain(polaris_cfg_sync_t, polaris_cfg_sync_exec_t)

polaris_boot_tmp_read(polaris_cfg_sync_t)
polaris_btrace_data_manage(polaris_cfg_sync_t)
polaris_chasfs_read(polaris_cfg_sync_t)
polaris_cpld_read(polaris_cfg_sync_t)
polaris_use_btrace_fifo(polaris_cfg_sync_t)

corecmd_exec_bin(polaris_cfg_sync_t)
auth_use_nsswitch(polaris_cfg_sync_t)

polaris_bootflash_read(polaris_cfg_sync_t)
polaris_nvram_manage(polaris_cfg_sync_t)
telnet_use_ptys(polaris_cfg_sync_t)

gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_cfg_sync_t, rsync_t)
allow rsync_t polaris_cfg_sync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_cfg_sync_t:fifo_file { write getattr };

logging_send_syslog_msg(polaris_cfg_sync_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.te
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dnl April 2018, Victor Kamensky
dnl
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dnl
# polarisvxeipcbaseauto file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
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#
### <summary>Polaris cm_fp Policy Rules.</summary>

### <summary>Execute cmd_fp in the polaris_cm_fp_t domain.</summary>
### <param name="domain">
## Domain allowed to transition.
### </param>

```c
interface('polaris_cm_fp_domtrans',
    gen_require('n
    type polaris_cm_fp_t, polaris_cm_fp_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_fp_exec_t, polaris_cm_fp_t)
')
```

### <summary>Allow the specified domain to manage cm_fp_tmp files</summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface('polaris_cm_fp_tmp_manage',
    gen_require('n
    type polaris_cm_fp_tmp_t; t
    type tmp_t;
')
    manage_files_pattern($1, [ polaris_cm_fp_tmp_t tmp_t ], polaris_cm_fp_tmp_t)
')
```

### <summary>
Create objects in /tmp with a polaris_cm_fp_tmp_t type using a type_transition.

<summary>
Domain allowed access.
</summary>

interface('polaris_cm_fp_tmp_filetrans',
  gen_require(
    type polaris_cm_fp_tmp_t;
    files_tmp_filetrans($1, polaris_cm_fp_tmp_t, file, "octeon-remote-lock-pci:0")
  )
)

Allow access to semaphore with type polaris_cm_fp_t

<summary>
Domain allowed access.
</summary>

interface('polaris_cm_fp_sem_use',
  gen_require(
    type polaris_cm_fp_t;
    allow $1 polaris_cm_fp_t:sem rw_sem_perms;
  )
)

Allow access to shared memory with type polaris_cm_fp_t

<summary>
Domain allowed access.
</summary>

interface('polaris_cm_fp_shm_use',
  gen_require(
    type polaris_cm_fp_t;
    allow $1 polaris_cm_fp_t:shm rw_shm_perms;
## <summary>
## Allow access to /dev/hkp with type polaris_cm_fp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

`interface('polaris_hkp_dev_use',`
    `gen_require('`
        type device_t;
        type polaris_hkp_device_t;
    `)
    `write_chr_files_pattern($1, device_t, polaris_hkp_device_t)`
    `read_chr_files_pattern($1, device_t, polaris_hkp_device_t)`
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.if
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#
# August 2017, Shawn Lu
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#

# polarisifmgr file contexts place holder

Found in path(s):
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#

### <summary>Polaris crankshaft Platform Policy Rules.</summary>

##########################################################################

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## <summary>
## Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_bde_dev_use',`
  gen_require(`
    type device_t;
    type polaris_bde_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_bde_device_t)
  read_chr_files_pattern($1, device_t, polaris_bde_device_t)
  allow $1 polaris_bde_device_t:chr_file map;
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/dash_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dash_dev_use',`
  gen_require(`
    type device_t;
    type polaris_dash_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_dash_device_t)
  read_chr_files_pattern($1, device_t, polaris_dash_device_t)
  allow $1 polaris_dash_device_t:chr_file map;
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/huron_fpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_huron_dev_use',
    gen_require(
        type device_t;
        type polaris_huron_device_t;
    
    )
    write_chr_files_pattern($1, device_t, polaris_huron_device_t)
    read_chr_files_pattern($1, device_t, polaris_huron_device_t)
    allow $1 polaris_huron_device_t:chr_file map;
)

###################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/dplr_sumatra
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//param>
#
interface('polaris_sumatra_doppler_dev_use',
    gen_require(
        type device_t;
        type polaris_sumatra_doppler_device_t;
    
    )
    write_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
    read_chr_files_pattern($1, device_t, polaris_sumatra_doppler_device_t)
    allow $1 polaris_sumatra_doppler_device_t:chr_file map;
)

###################################################################
## <summary>
##      Work (open, read, write, ioctl) with /dev/sirius_fpga device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//param>
#
interface('polaris_sirius_fpga_dev_use',
    gen_require(
        type device_t;
        type polaris_siriusfpga_device_t;
    
    )
    rw_chr_files_pattern($1, device_t, polaris_siriusfpga_device_t);
)
### <summary>
### Work (read, write, ioctl) with /dev/nios device
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_nios_dev_use',
gen_require('  
    type device_t;
    type polaris_nios_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_nios_device_t)
    read_chr_files_pattern($1, device_t, polaris_nios_device_t)
')

### <summary>
### Work (read, write, ioctl) with /dev/qae_mem device
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_qae_dev_use',
gen_require('  
    type device_t;
    type polaris_qae_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_qae_device_t)
    read_chr_files_pattern($1, device_t, polaris_qae_device_t)
')

### <summary>
### Read mokafpga files in /sys/devices/platform directory
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
# interface('polaris_mokafpga_read',`
   gen_require(`
       type polaris_sysfs_mokafpga_t;
       type sysfs_t;
   `)
   read_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
   list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
`) 

##########################################
## <summary>
##      Read/Write mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_mokafpga_rw',`
   gen_require(`
       type polaris_sysfs_mokafpga_t;
       type sysfs_t;
   `)
   rw_files_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
   list_dirs_pattern($1, polaris_sysfs_mokafpga_t, polaris_sysfs_mokafpga_t)
`) 

##########################################
## <summary>
##      Work (read, write, ioctl) with /dev/moka_fpga
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_mokafpga_dev_use',`
   gen_require(`
       type device_t;
       type polaris_mokafpga_device_t;
   `)
   write_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
   read_chr_files_pattern($1, device_t, polaris_mokafpga_device_t)
`)
## <summary>
## Work (read, write, ioctl) with /dev/nim_dm_0_1 and 
## /dev/nim_dm devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_nim_dm_dev_use',
#
# gen_require(
#   type device_t;
# type polaris_nim_dm_device_t;
# )
# write_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
# read_chr_files_pattern($1, device_t, polaris_nim_dm_device_t)
# allow $1 polaris_nim_dm_device_t:chr_file map;
# allow $1 device_t:chr_file map;
# )
#

## <summary>
## Execute a domain transition to run load_usbnet.sh.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_load_usbnet_domtrans',
#
# gen_require(
#   type polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
# )
# domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
# )
#

## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
interface(`polaris_i2c_sem_manage',`
    gen_require(
        type tmpfs_t;
        type polaris_cm_cc_tmpfs_t;
    )
    manage_files_pattern($1, tmpfs_t, polaris_cm_cc_tmpfs_t)
    mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

-----------------------------------
## <summary>
## Work (read, write, ioctl) with /dev/bp_async device
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_bp_async_dev_use',`
    gen_require(
        type device_t;
        type polaris_bp_async_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    read_chr_files_pattern($1, device_t, polaris_bp_async_device_t)
    allow $1 polaris_bp_async_device_t:chr_file map;
')

-----------------------------------
## <summary>
## Label and allow access to i2c semaphore files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_udev_access',`
    gen_require(
        type tmpfs_t;
        type polaris_udev_tmp_files_t;
    )
    manage_files_pattern($1, tmpfs_t, polaris_udev_tmp_files_t)
`interface('polaris_sparrow_psu_dev_use',``
    gen_require(`
        type device_t;
        type polaris_sparrow_psu_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
    read_chr_files_pattern($1, device_t, polaris_sparrow_psu_device_t)
`)

`interface('polaris_nutella_fpga_dev_use',``
    gen_require(`
        type device_t;
        type polaris_nutella_fpga_device_t;
    `)
    write_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_nutella_fpga_device_t)
`)

`interface('qcqmi_dev_use',``
    gen_require(`
        type device_t;
        type qcqmi_device_t;
    `)
    write_chr_files_pattern($1, device_t, qcqmi_device_t)
    read_chr_files_pattern($1, device_t, qcqmi_device_t)
`)

`)
interface(`polaris_qcqi_dev_use',`
gen_require(`
type device_t, qcqi_device_t;
')

rw_chr_files_pattern($1, device_t, qcqi_device_t)
')

##########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/sm_nim_adpt device files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#
interface(`polaris_sm_nim_adpt_dev_use',`
gen_require(`
type device_t;
type polaris_sm_nim_adpt_device_t;
')

write_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
read_chr_files_pattern($1, device_t, polaris_sm_nim_adpt_device_t)
allow $1 polaris_sm_nim_adpt_device_t:chr_file map;
')

##########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/dio-*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#
interface(`polaris_dio_dev_use',`
gen_require(`
type device_t;
type polaris_dio_device_t;
')

write_chr_files_pattern($1, device_t, polaris_dio_device_t)
read_chr_files_pattern($1, device_t, polaris_dio_device_t)
allow $1 polaris_dio_device_t:chr_file map;
')

###############################
## <summary>
## Read /dev/dio-*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_dio_dev_read',
    gen_require(
        type device_t;
        type polaris_dio_device_t;
    )
    read_chr_files_pattern($1, device_t, polaris_dio_device_t)
')

###############################
## <summary>
## Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_tty_NMEA_dev_use',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)
    allow $1 polaris_tty_NMEA_device_t:chr_file map;
')

###############################
## <summary>
## Read /dev/ttyNMEA* and /dev/ttyTunNMEA*
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
interface('polaris_tty_NMEA_dev_read',
    gen_require(
        type device_t;
        type polaris_tty_NMEA_device_t;

    )
    read_chr_files_pattern($1, device_t, polaris_tty_NMEA_device_t)

)

interface('polaris_nim_phy_dev_use',
    gen_require(
        type device_t;
        type polaris_nim_phy_device_t;

    )
    rw_chr_files_pattern($1, device_t, polaris_nim_phy_device_t)
    allow $1 polaris_nim_phy_device_t:chr_file map;

)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.if
No license file was found, but licenses were detected in source scan.

dnl
dnl July 2020, Victor Kamensky
dnl
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dnl
dnl c8kv Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 3)
max_bay_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'per_bay', 0)
max_bay_ripc_map_set('cc', 'per_bay', 3)
max_bay_ripc_map_set('fp', 'per_bay', 0)
max_bay_ripc_map_set(’rp’, ’global’, 0)
max_bay_ripc_map_set(’cc’, ’global’, 3)
max_bay_ripc_map_set(’fp’, ’global’, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/c8kvmaps.m4
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
#/bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# not really a license file stored by iosd during platform resource config command
/csl_p_0/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

# nvram devices
/dev/boottlash2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/boottlash3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda2 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/sda3 -b gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/linux-user-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/linux-kernel-bde -c gen_context(system_u:object_r:polaris_bde_device_t,s0)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
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/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc1 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc2 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc3 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_nios -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/huron_fpga -c gen_context(system_u:object_r:polaris_huron_device_t,s0)
/dev/dplr_sumatra -c gen_context(system_u:object_r:polaris_sumatra_doppler_device_t,s0)
/dev/nios -c gen_context(system_u:object_r:polaris_nios_device_t,s0)
/dev/qae -c gen_context(system_u:object_r:polaris_qae_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# moka fpga
/dev/moka_fpga -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)
/dev/moka_fpga_cc -c gen_context(system_u:object_r:polaris_mokafpga_device_t,s0)

# for load usbnet module
/usr/binos/conf/load_usbnet.sh -- gen_context(system_u:object_r:polaris_load_usbnet_exec_t,s0)

/dev/nim_dm -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_dm_0_1 -c gen_context(system_u:object_r:polaris_nim_dm_device_t,s0)
/dev/nim_phy -c gen_context(system_u:object_r:polaris_nim_phy_device_t,s0)

# file-system on blackheart/sparrow
# /crashinfo is symbolic link to /flash1
/crashinfo gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

# /flash is symbolic link to /flash1
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /flash0 NVRAM
/flash0/(.*)? gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# /flash1 Bootflash
/flash1/(.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flash1/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flash1/.geo/(.*)? gen_context(system_u:object_r:polaris_geodb_files_t,s0)
/flash1/.USWAP/(.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)
/flash1/dhpersist/(.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/flash1/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t,s0)
# Open Source Used In Cisco Identity Services Engine 3.2

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**Open Source Used In Cisco Identity Services Engine 3.2**

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```
# /flash1/packages.conf
.gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /flash1/core(/.*)?
.gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash1/rollback_timer(/.*)?
.gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)

# /flash1/installer(/.*)?
.gen_context(system_u:object_r:polaris_disk_install_t,s0)

# /flash1/ssh(/.*)?
.gen_context(system_u:object_r:sshd_home_t,s0)

# /flash1/ssh/ssh_host.*.key\pub
.gen_context(system_u:object_r:sshd_key_t,s0)

# /flash1/ssh/ssh_host.*.key
.gen_context(system_u:object_r:sshd_key_t,s0)

# /flash3 OBFL

# /flash3(/.*)?
.gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# harddisk

# /vol/harddisk(/.*)?
.gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

# /mnt/msata(/.*)?
.gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

# for usage by IOX

# /vol/ubsh1(/.*)?
.gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)

# Nvram symlink on Aventus platform

# /aventus_config/nvram
.gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# Nvram symlink on Cabo platform

# /cabo_config/nvram
.gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# Device applicable to Betelgeuse platform

# /dev/sirius_fpga
.gen_context(system_u:object_r:polaris_siriusfpga_device_t,s0)

# Device applicable to Nanook platform

# /dev/bp_async -c
.gen_context(system_u:object_r:polaris_bp_async_device_t,s0)

# Device applicable to Sparrow platform

# /dev/remap_mem0 -c
.gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)

# /dev/sparrow_psu -c
.gen_context(system_u:object_r:polaris_sparrow_psu_device_t,s0)

# /dev/dio-upstream -c
.gen_context(system_u:object_r:polaris_dio_device_t,s0)

# /dev/ttyNMEA[0-1] -c
.gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)

# /dev/ttyTunNMEA[0-1] -c
.gen_context(system_u:object_r:polaris_tty_NMEA_device_t,s0)

# Device applicable to Nutella platform

# /dev/nutella_fpga -c
.gen_context(system_u:object_r:polaris_nutella_fpga_device_t,s0)
```
#Only qcqmi0 and qcqmi1 are generated for Telit/SWI modems
/dev/qcqmi0 -c gen_context(system_u:object_r:qcqmi_device_t,s0)
/dev/qcqmi1 -c gen_context(system_u:object_r:qcqmi_device_t,s0)

#SM NIM Adpater Switzer-CC device files
/dev/sm_nim_adpt_fpga_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_1_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_fpga_2 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_0 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)
/dev/sm_nim_adpt_nim_oir_2_1 -c gen_context(system_u:object_r:polaris_sm_nim_adpt_device_t,s0)

# CLI: show platform hardware msata
/usr/bin/os/bin/msata_info.sh -- gen_context(system_u:object_r:polaris_msata_info_exec_t,s0)
/tmp/sata_status -- gen_context(system_u:object_r:polaris_sata_status_tmp_t,s0)

# Memory blocks and gpp for Nutella platform
/dev/mmcblk0gp0p1 gen_context(system_u:object_r:polaris_nutella_gp0_t,s0)
/gpp gen_context(system_u:object_r:polaris_nutella_gpp_t,s0)

# CLI: show platform hardware slot p[x] fan eeprom
/usr/bin/os/conf/mcp_fan_eeprom_cmd.sh -- gen_context(system_u:object_r:polaris_smart_fan_exec_t,s0)
/var/run/cwan_ezmanage_cwan_server -- gen_context(system_u:object_r:polaris_cwan_svr_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscmfp, 1.0);

gen_require(
    type polaris_cm_fp_t;
);

polaris_btrace_data_manage(polaris_cm_fp_t)
polaris_crft_data_manage(polaris_cm_fp_t)
polaris_chasfs_manage(polaris_cm_fp_t)
polaris_tdlresolve_read(polaris_cm_fp_t)
polaris_tdldb_list_dirs(polaris_cm_fp_t)
polaris_cpld_read(polaris_cm_fp_t)
polaris_flashlib_read(polaris_cm_fp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_fp_t)

polaris_cpld_dev_use(polaris_cm_fp_t)
polaris_proc_rmonbifo_read(polaris_cm_fp_t)
polaris_obfl_data_read(polaris_cm_fp_t)
polaris_persistent_list_dirs(polaris_cm_fp_t)
polaris_chasync_files_manage(polaris_cm_fp_t)

# cman_fp creates /tmp/cpp_anon_db file, instead of adding it to polaris_cpp_domain
# let us just grant access to cpp tmp files
polaris_cpp_tmp_files_use(polaris_cm_fp_t, "cpp_anon_db")
# on 1ng works with /dev/cpp
polaris_cpp_dev_use(polaris_cm_fp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_fp_t)

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479556298.842:11): avc: denied { getattr } for pid=5464 comm="cman_fp"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_fp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479556298.842:12): avc: denied { read write } for pid=5464 comm="cman_fp"
name="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_fp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_cm_fp_t)

polaris_icc_broken_relocations(polaris_cm_fp_t)

allow polaris_cm_fp_t self:udp_socket { create ioctl };

# cman_fp can start dyncfg_setup.sh, allow its transition to dyncfg_t type
polaris_dyncfg_domtrans(polaris_cm_fp_t)

# on 1ng cman_fp write into /bootflash/crypto/octeon_pci_console_dev0_20170723_075412.log
polaris_bootflash_manage(polaris_cm_fp_t)

polaris_disk_harddisk_read_lnk(polaris_cm_fp_t)

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_cm_fp_t)
kernell_write_proc_files(polaris_cm_fp_t)

# cm fp tmp files like /tmp/octeon-remote-lock-pci:0
type polaris_cm_fp_tmp_t;
files_tmp_file(polaris_cm_fp_tmp_t)
polaris_cm_fp_tmp_filetrans(polaris_cm_fp_t)
polaris_cm_fp_tmp_manage(polaris_cm_fp_t)
# besides /tmp/octeon-remote-lock-pci:0 all other files in /tmp
# are ours
files_tmp_filetrans(polaris_cm_fp_t, polaris_cm_fp_tmp_t, file)

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',`
  polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_cm_fp_t)
')

# LOOK AT ME: raw memory access in dopler SDK remove after
# CSCvm34516 is fixed using CSCvm34630
ifdef(`starfleet_platform',`
  polaris_dev_mem_use(polaris_cm_fp_t)
')

# "show platform hardware slot F0 eobc interface standby rmon" leads to
# ioctl() call from cmlib_get_eobc_drv_info().
kernal_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernal_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family',`
  polaris_dyncfg_setup(polaris_cm_fp_t)
')

allow polaris_cm_fp_t self:capability dac_override;
polaris_obfl_data_manage(polaris_cm_fp_t)

allow polaris_cm_fp_t self:netlink_route_socket rw_netlink_socket_perms;
ifdef(`ngwc_family',`
  # cmfp_asic_mmap_func() function in cmfp module uses
  # /dev/chdrvmmmap for asic memory mapping
  polaris_chdrvmmmap_dev_use(polaris_cm_fp_t)
')

# on macallan cman_fp needs access to /dev/cisco/dplriomem
# for mappin dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_cm_fp_t);

# on macallan iomd needs access to /dev/cisco/fpgaioem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t):
  )

optional_policy(')
  # Allow /dev/dmammap access
  polaris_dmammap_dev_use(polaris_cm_fp_t)
  )

# on starfleet need access to
# /sys/device/platform/cpld/reg_fan_control
polaris_cpld_write(polaris_cm_fp_t)

# /dev/shm/sdm access
optional_policy(')
polaris_sdm_shm_manage(polaris_cm_fp_t)
  )

logging_send_syslog_msg(polaris_cm_fp_t)

# /dev/epactrlN on qwlc
optional_policy(')
polaris_epa_dev_use(polaris_cm_fp_t)
  )

# /dev/astro on qwlc
optional_policy(')
polaris_astro_dev_use(polaris_cm_fp_t)
  )

# /dev/cpp_il on qwlc
optional_policy(')
polaris_cpp_il_dev_use(polaris_cm_fp_t)
  )

# on radium need to get model info
optional_policy(')
polaris_dash_dev_use(polaris_cm_fp_t)
  )

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(')
polaris_cpp_cavium_dma_map(polaris_cm_fp_t)
  )
# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_fp_t)

optional_policy(' # betelgeuse need access to /dev/sirius_fpga
polaris_sirius_fpga_dev_use(polaris_cm_fp_t)
')

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy(' polaris_serdes_asic_key_tmp_manage(polaris_cm_fp_t)
')

type polaris_hkp_device_t;
dev_node(polaris_hkp_device_t)

# access /dev/iocp0
optional_policy(' polaris_spa_dev_use(polaris_cm_fp_t)
')

optional_policy(' # access /dev/hkp
polaris_hkp_dev_use(polaris_cm_fp_t)

polaris_n2_dev_use(polaris_cm_fp_t)
polaris_cy2213_dev_use(polaris_cm_fp_t)
polaris_ddr_dev_use(polaris_cm_fp_t)
polaris_vega_dev_use(polaris_cm_fp_t)
')
polaris_firmware_read(polaris_cm_fp_t)

# allow access to /csl_p_0/vcpu_template.txt
polaris_iosd_vcpu_read(polaris_cm_fp_t)

# allow Cabo access to i2c semaphores
ifdef('cabo_platform', '
polaris_i2c_sem_manage(polaris_cm_fp_t)
')

ifdef('sumatra_platform', '
# access huron fpga on sumatra
polaris_huron_dev_use(polaris_cm_fp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfpe.te
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#

# polarisezmancc file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
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#

policy_module(polarisripc, 1.0);

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# polarisripc file contexts place holder

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dnl
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dnl
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dnl
divert(-1)

include(‘polaris_process.m4’)
include(‘polaris_process_fc.m4’)

include(‘polaris_ipc_mqipc.m4’)
include(‘polaris_ipc_mqipc_fc.m4’)

include(‘polaris_ipc_ripic.m4’)
include(‘polaris_ipc_ripic_fc.m4’)

include(‘polaris_ipc_lipic.m4’)
include(‘polaris_ipc_lipic_fc.m4’)

dnl Stub out non existent one
define(‘polaris_websocket_service_server’, ‘’)
define(‘polaris_cipc_service_server’, ‘’)

include(‘polaris_max_scope.m4’)

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_fc.m4
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#
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#

policy_module(polarisstorage, 1.0);

#########################################################################
# Persistent storage policy
#########################################################################
attribute polaris_disk;

# Default disk types

type polaris_disk_bootflash_t;
polaris_disk_type(polaris_disk_bootflash_t)
type polaris_disk_varied_t;
polaris_disk_type(polaris_disk_varied_t)

type polaris_disk_harddisk_t;
polaris_disk_type(polaris_disk_harddisk_t)

type polaris_disk_csl_p_t;
polaris_disk_type(polaris_disk_csl_p_t)

type polaris_disk_csl_s_t;
polaris_disk_type(polaris_disk_csl_s_t)

type polaris_disk_objstore_t;
polaris_disk_type(polaris_disk_objstore_t)

type polaris_disk_crashinfo_t;
polaris_disk_type(polaris_disk_crashinfo_t)

type polaris_disk_license_t;
polaris_disk_type(polaris_disk_license_t)

type polaris_disk_ucode_t;
polaris_disk_type(polaris_disk_ucode_t)

type polaris_disk_recovery_t;
polaris_disk_type(polaris_disk_recovery_t)

type polaris_disk_config_t;
polaris_disk_type(polaris_disk_config_t)

# Persistent files types
type polaris_system_report_t;
polaris_pfile_type(polaris_system_report_t)

type polaris_core_file_t;
polaris_pfile_type(polaris_core_file_t)

type polaris_debug_conf_t;
polaris_pfile_type(polaris_debug_conf_t)

type polaris_packages_conf_t;
polaris_pfile_type(polaris_packages_conf_t)

type polaris_grub_efi_t;
polaris_pfile_type(polaris_grub_efi_t)

# we label .ssh files residing on persistent storage as ssh_home_t
# and sshd_key_t
#
# below statement could/should be moved into ssh te file?
gen_require('  
    type ssh_home_t;
    type sshd_key_t;
')
polaris_disk_type(ssh_home_t)
polaris_disk_type(sshd_key_t)

# handling /bootflash directory - created by systemd unit, note normally
# something will be mounted on top of it, but in some cases like RP2 line
# cards it will be ramfs directory.
gen_require('  
    type root_t;
    type unconfined_service_t;
')
filetrans_pattern(unconfined_service_t, root_t, polaris_disk_bootflash_t, dir, "bootflash")

# nfsd accesses different persistent storage directories and it needs getattr
gen_require('  
    type nfsd_t;
')
polaris_persistent_getattr(nfsd_t)

# on qwlc /misc/scratch symbolic link created by systemd-tmpfile, but then
# removed and recreated by harddisk mount systemd unit
gen_require('  
    type unconfined_service_t;
    type mnt_t;
')
filetrans_pattern(unconfined_service_t, mnt_t, polaris_disk_bootflash_t, lnk_file, "scratch")

gen_require('  
    type polaris_confd_t;
    type tmp_t;
')
filetrans_pattern(polaris_confd_t, tmp_t, polaris_packages_conf_t, file, "packages.conf")

# first time creation of /bootflash/core directory
gen_require('  
    type initrc_t;
    type init_t;
')
filetrans_pattern({initrc_t init_t unconfined_service_t}, {polaris_disk_bootflash_t polaris_disk_harddisk_t},
polaris_core_file_t, dir, "core")

gen_require("
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```c

type init_t;

`) files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.te
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#
#
/usr/binos/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.fc
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#
#
/usr/cpp/bin/cpp_sp_svr -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
/usr/cpp/bin/cpp_sp_svr_vwlcLedp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpssp.fc
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#
#
## <summary>Polaris Btrace Policy Rules.</summary>

################################################################################
```

---

## <summary>Polaris Btrace Policy Rules.</summary>

```
```

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

---

## <summary>Polaris Btrace Policy Rules.</summary>

```
```
# Btrace policy

```
# Manage btrace auxiliary files
<summary>
Domain allowed access.
</summary>
<param name="domain">
      Domain allowed access.
</param>
<rolebase/>

# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
manage_dirs_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# work with cache files and dirs under /tmp/tmppub, like /tmp/tmppub/libs_cache
polaris_btrace_tmppub_manage($1)

fs_tmpfs_filetrans($1, polaris_btrace_tmpfs_t, file, "oper_uuid_shm")
manage_files_pattern($1, tmpfs_t, polaris_btrace_tmpfs_t)
allow $1 polaris_btrace_tmpfs_t:file map;

# Manage temporary (not yet persistent) btrace files
<summary>
Domain allowed access.
</summary>
<param name="domain">
      Domain allowed access.
</param>
<rolebase/>

# interface('polaris_btrace_data_manage_all',

polaris_btrace_data_manage($1)

gen_require(
    attribute polaris_btrace_data_domain;
```
type polaris_btrace_base_t;

manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_data_domain)
allow $1 polaris_btrace_data_domain:file map;

# create temporary files in trace directory
manage_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)
manage_link_files_pattern($1, polaris_btrace_base_t, polaris_btrace_base_t)

# watch btrace data directory for changes
allow $1 polaris_btrace_base_t:dir watch;

#######################################
## <summary>
##      Manage btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_btrace_persistent_data_manage',
gen_require(`
type polaris_btrace_data_t;
`)
manage_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
manage_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
`)

#######################################
## <summary>
##      Read btrace persistent files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_btrace_persistent_data_read',
gen_require(`
type polaris_btrace_data_t;
')

    search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
read_files_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

###############################################################################
## <summary>
##    Search btrace persitent files
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_persistent_data_search',
gen_require(''
        type polaris_btrace_data_t;
')

    search_dirs_pattern($1, polaris_btrace_data_t, polaris_btrace_data_t)
')

###############################################################################
## <summary>
##    Search tracelogs directions in bootflash, harddisk or crashinfo
directories
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_btrace_search_tracelogs',
        gen_require(''
            type polaris_disk_harddisk_t;
            type polaris_disk_bootflash_t;
            type polaris_disk_crashinfo_t;
')

    search_dirs_pattern($1, polaris_disk_harddisk_t, polaris_btrace_data_t)
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_btrace_data_t)
    search_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_btrace_data_t)
')

########################################################################
## <summary>
## Manage btrace boot level config files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_btrace_lvl_config_manage',
  gen_require(
    type polaris_btrace_lvl_config_t;
    type polaris_btrace_data_t;
  )
)

manage_dirs_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
manage_files_pattern($1, polaris_btrace_lvl_config_t, polaris_btrace_lvl_config_t)
  filetrans_pattern($1, polaris_btrace_data_t, polaris_btrace_lvl_config_t, dir, "level_config")

  polaris_btrace_search_tracelogs($1)

  polaris_disk_bootflash_read_lnk($1)
polaris_disk_harddisk_read_lnk($1)
polaris_disk_crashinfo_read_lnk($1)
')

########################################################################
## <summary>
## Read ldb_tmp btrace meta data files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_btrace_ldb_tmp_read',
  gen_require(
    type polaris_ldb_tmp_t;
  )
)

read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
#<summary>
## Read and write all btrace or pman fifo file, used as standard input/output.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_use_btrace_fifo',` gen_require(`
  type polaris_fifo_stdout_t;
`
allow $1 polaris_fifo_stdout_t:fifo_file { rw_term_perms lock append create unlink getattr }; 
#
# For pmanlite, allow pmans grand-children to be able to operate on pipe created by pman.
polaris_use_pman_fifo($1)`
#
#<summary>
## Execute create_luid_file_db in the its domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
## <rolecap/>
#
interface(`polaris_create_ldb_domtrans',` gen_require(`
  type polaris_create_ldb_t, polaris_create_ldb_exec_t;
`
corecmd_search_bin($1)
domtrans_pattern($1, polaris_create_ldb_exec_t, polaris_create_ldb_t)`
##<summary>
## Make the specified type usable as btrace data file type.
### <summary>
### <param name="type">
### Type to be used for files.
### </summary>
### </param>
#
interface('polaris_btrace_data_type',
    files_type($1)
gen_require(
    attribute polaris_btrace_data_domain;
')
typeattribute $1 polaris_btrace_data_domain;
')

########################################
### <summary>
### Process to manage its own btrace files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <param name="file_type">
### File type of btrace that corresponds to given domain.
### </param>
### </param>
### <rolebase/>
#
interface('polaris_btrace_data_client',
gen_require(
    type polaris_btrace_base_t;
')

manage_files_pattern($1, polaris_btrace_base_t, $2)
manage_lnk_files_pattern($1, polaris_btrace_base_t, $2)
filetrans_pattern($1, polaris_btrace_base_t, $2, { file lnk_file })

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presense, created by btman, may need its own type
gen_require(
    type polaris_btman_bt_t;
')
getattr_files_pattern($1, polaris_btrace_base_t, polaris_btman_bt_t)

allow $1 $2:file map;
')

******************************************************************************
## <summary>
##   Process to manage its own btrace files
## </summary>
## <param name="domain_stem">
##   <summary>
##      Steam of domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface(`polaris_btrace_data_client_template',`
  gen_require(`
    attribute polaris_btrace_data_domain;
    type polaris_btrace_base_t;
  `)
  type polaris_$1_bt_t;
  polaris_btrace_data_type(polaris_$1_bt_t)
  polaris_btrace_data_client(polaris_$1_t, polaris_$1_bt_t)
`)

******************************************************************************
## <summary>
##   Execute mcp_trace_request.sh in its domain.
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed to transition.
##   </summary>
## </param>
#
interface(`polaris_trace_request_domtrans',`
  gen_require(`
    type polaris_trace_request_t, polaris_trace_request_exec_t;
  `)
  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_trace_request_exec_t, polaris_trace_request_t)
`)

******************************************************************************
## <summary>
##   Watch btrace directories
## </summary>
## <summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_watch',`

gen_require(`
    type polaris_btrace_base_t;
    type polaris_btrace_data_t;
')
    allow $1 polaris_btrace_base_t:dir watch;
    allow $1 polaris_btrace_data_t:dir watch;
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.if
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#

policy_module(polaristamsrp, 1.0);

gen_require(`
    type polaris_tams_rp_t;
')

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crf_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdlldb_list_dirs(polaris_tams_rp_t)
polaris_flashlib_read(polaris_tams_rp_t)
polaris_cpld_read(polaris_tams_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_tams_rp_t)

# tams_tame_tipc_listener_init function create tipc socket
allow polaris_tams_rp_t self:socket { bind create listen accept getattr read write };

Found in path(s):
policy_module(polarisiomd, 1.0);

    gen_require(''
        type polaris_iomd_t;
    ')
        polaris_btrace_data_manage(polaris_iomd_t)
    polaris_crf1t_data_manage(polaris_iomd_t)
    polaris_chasfsmanage(polaris_iomd_t)
    polaris_tdlresolve_read(polaris_iomd_t)
    polaris_tdlldb_list_dirs(polaris_iomd_t)
    polaris_cpld_read(polaris_iomd_t)
    polaris_flashlib_read(polaris_iomd_t)

    polaris_ripc_sman_ui_serv_connect(polaris_iomd_t)

    polaris_db_tdlldb_dir_use(polaris_iomd_t)

    polaris_dyncfg_tmp_read(polaris_iomd_t)
    optional_policy(''
        polaris_spa_dev_use(polaris_iomd_t)
    ')

    # allow objstore access
    polaris_disk_objstore_read(polaris_iomd_t)

    polaris_ngio_dev_use(polaris_iomd_t)

    # deals with /dev/shm files semaphors; like uuid_sem semaphore
    # created by btrace_get_uuid function
    type polaris_iomd_tmpfs_t;
    files_tmpfs_file(polaris_iomd_tmpfs_t)
    fs_tmpfs_filetrans(polaris_iomd_t, polaris_iomd_tmpfs_t, file)
    manage_files_pattern(polaris_iomd_t, tmpfs_t, polaris_iomd_tmpfs_t)
    # sem_open through where_is_shmfs does stat on /dev/shm
    fs_getattr_tmpfs(polaris_iomd_t)

    # allow /dev/i2c device file
polaris_i2c_use(polaris_iomd_t)

ifdef(`ngwc_family`,
# On Macallan platforms the following api call from iomd process,
# ngmodslot_is_upper_sup_present() does a read access of /dev/cpld
polaris_cpld_dev_read(polaris_iomd_t)
polaris_cpld_dev_use(polaris_iomd_t)

#allow cpp tmp file
polaris_cpp_tmp_files_use(polaris_iomd_t)

# In Macallan cards which use Doppler ASIC.
# IOMD module uses ngmod_doppler_mmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvvmmap device.
polaris_chdrvvmmap_dev_use(polaris_iomd_t)

# IOMD module invokes ASIC Scan functionality
# and calls asic_register_intr_handler(), which
# needs to access the doppler MSI devices
#/dev/usi/Slot[0-9]/Doppler[0-9]/Group[0-9]
polaris_dplr_dev_use(polaris_iomd_t)
# but above still not enough at some point
# device like /dev/usi/Slot8/Doppler0/Group0 still
# considered as device_t, not clear need to look a bit more
dev_rw_generic_chr_files(polaris_iomd_t)

# on macallan iomd needs access to /dev/cisco/dplriomem
# for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapDrv_dev_use(polaris_iomd_t);

# IOMD calls ngmod_obfl_errmssg_app_init() to initialize
# OBFL.
polaris_obfl_data_manage(polaris_iomd_t)

# IOMD fast path code invokes ngmod_fastpath_thread_func(),
# which increases the scheduler priority.
allow polaris_iomd_t self:capability sys_nice;
allow polaris_iomd_t self:process setsched;

# on macallan iomd needs access to /dev/cisco/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapFpga_dev_use(polaris_iomd_t);

optional_policy(
# ASIC related mmap code in IOMD needs to access PCI scan related
# rescan shm mutex
polaris_cm_cc_tmpfs_manage(polaris_iomd_t)
# both utah and macallan text relocations in libcnp_common_os.so
ifdef('crankshaft_family',
  polaris_icc_broken_relocations(polaris_iomd_t)
  # Nightwatch switch module needs to access the doppler devices
  polaris_dplr_dev_use(polaris_iomd_t)
  dev_rw_generic_chr_files(polaris_iomd_t)
  allow polaris_iomd_t self:capability sys_nice;
  allow polaris_iomd_t self:process setsched;
')

optional_policy('  
  # Allow /dev/dmammap access
  polaris_dmammap_dev_use(polaris_iomd_t)
')

optional_policy('  
  # on starfleet access gettysburg_fpga
  polaris_gettysburg_fpga_dev_use(polaris_iomd_t)
')

type polaris_iomd_tmp_t;
files_tmp_file(polaris_iomd_tmp_t)
manage_dirs_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)
manage_fifo_files_pattern(polaris_iomd_t, polaris_iomd_tmp_t, polaris_iomd_tmp_t)

# on macallan MRVL88X5113_DRV_PRINT macro outputs into /tmp/mrvl88x5113.log file
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, file, "mrvl88x5113.log")

logging_send_syslog_msg(polaris_iomd_t)

ifdef('ngwc_family',
  # from in115050_test_app_thread_create in
  # drivers/userspace/inphi/dev_ephy_in115050/src/dev_ephy_in115050.c
  # For macallan in115025_test_app_thread_create in
  # drivers/userspace/inphi/dev_ephy_in115025/src/dev_ephy_in115025.c
  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_inphi")

  # In case of starfleet fixed the following module creates folder in /tmp
  # /drivers/userspace/mrvl_phy/dev_ephy_mrvl88ec808/src/dev_ephy_m88ec808.c
  files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_mrvlphy")

#allow access to /tmp/serdes_asci_key_dir as this path is used both by
#cman_fp for programming DPP serdes and IOMD for programming n/w serdes
optional_policy('
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

')

#Doppler E mac creates lockfiles with names following
#the pattern /tmp/nug_asic_key_dir/nug_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "nug_asic_key_dir")

#Doppler ES mac creates lockfiles with names following
#the pattern /tmp/rmt_asic_key_dir/rmt_asic_key_[0-9]_[0-9]_[0-9]
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "rmt_asic_key_dir")

# from etopus_spawn_serdes_tool_thread in
# bins/platforms/ngwc/doppler_sdk/drivers/serdes/Vendor/src/etopus_serdes.c
files_tmp_filetrans(polaris_iomd_t, polaris_iomd_tmp_t, dir, "test_etp")

# on starfleet access /dev/cpld, in iomd_starfleet_create_mmap()
polaris_cpld_dev_use(polaris_iomd_t)

')

optional_policy(
polaris_ngwc_itfpo_manage(polaris_iomd_t)

')

# ngio device
type polaris_ngio_device_t;
dev_node(polaris_ngio_device_t)

# For NGIO modules iomd uses netlink socket (via backplane switch)
allow polaris_iomd_t self:netlink_socket { bind create };

ifdef('sumatra_platform',
# on Sumatra access /dev/cpld from iomd
polaris_cpld_dev_use(polaris_iomd_t)
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_iomd_t)
polaris_sumatra_doppler_dev_use(polaris_iomd_t)

#access SERDES /tmp/serdes_asic_key_dir/*
polaris_serdes_asic_key_tmp_manage(polaris_iomd_t)

# access /dev/huron_fpga
polaris_huron_dev_use(polaris_iomd_t)

# manage "sysctrl_i2c.lck"
gen_require(
    type polaris_cm_rp_tmp_t;
)
files_tmp_filetrans(polaris_iomd_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_iomd_t)

# comm="iomd" kmod="netdev-bp246"
kernel_request_load_module(polaris_iomd_t)

# work with /sys/devices/i2c-15/15-0076/...
dev_rw_sysfs(polaris_iomd_t)

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_lipc_service_server_many',
`ifelse($3, `',
polaris_lipc_create_name(dollarsone, $1, "$2"),
polaris_lipc_create_name(dollarsone, $1, "$2-b$3")
`ifelse($3, 0, `polaris_lipc_create_name(dollarsone, $1, "$2"), `polaris_lipc_service_server_many($1, $2, eval($3 - 1))'))')

define(`polaris_lipc_service_server_aux',`dnl
########################################
## <summary>
##	Create $2 lipc chanell.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_lipc_$1_create_name'',``
gen_require(`

type $2;
')

$3
")

########################################
## <summary>
##	Write $2 lipc chanell.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_lipc_$1_create_name'',``
gen_require(`

type $2;
')

$3
")
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <param name="server">
## Domain of owner of lipc channel.
## </summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_lipc_$1_write`,``
gen_require(`
    type $2;
')
    polaris_lipc_write(dollarsone, $2, dollarstwo)
")
')
define(`polaris_lipc_service_server`,`dnl
polaris_lipc_service_server_aux(lipc_stem($1), lipc_label($1),
    polaris_lipc_service_server_many(lipc_label($1), $5, max_scope_map($3, $4, $2)))
)
define(`polaris_lipc_service_client`,``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_if.m4
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# # March 2017, Victor Kamensky
#
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#

policy_module(polarisncd, 1.0);

gen_require(`
    type polaris_ncd_t;
')

# allow sntp transition in its own domain when started by ncd
ntp_domtrans_ntpdate(polaris_ncd_t)
corecmd_exec_bin(polaris_ncd_t)
corecmd_exec_shell(polaris_ncd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_ncd_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ncd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ncd_t)

# work with /tmp files (/tmp/ncd)
type polaris_ncd_tmp_t;
files_tmp_file(polaris_ncd_tmp_t)
manage_dirs_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)
manage_fifo_files_pattern(polaris_ncd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, file)

# create /tmp/ncd and /tmp/etc/ncd_work_dir directories
gen_require(''
    type polaris_etc_t;
')
manage_dirs_pattern(polaris_ncd_t, { tmp_t polaris_etc_t }, polaris_ncd_tmp_t)
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, dir, "ncd")
# /tmp/etc/ncd_work_dir
filetrans_pattern(polaris_ncd_t, polaris_etc_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")

# work with /tmp/ncd/inot_fifo
files_tmp_filetrans(polaris_ncd_t, polaris_ncd_tmp_t, fifo_file, "inot_fifo")
manage_fifo_files_pattern(polaris_ncd_t, tmp_t, polaris_ncd_tmp_t)

# allow sntp to read out fifo file
gen_require(''
    type ntpd_t;
')
read_fifo_files_pattern(ntpd_t, polaris_ncd_tmp_t, polaris_ncd_tmp_t)

# work with /tmp/ufs directory. the ufs directory can be created
# by both polaris_ncd_t and udev_t subjects (depending upon platform
# logic)
gen_require(''
    type udev_t;
    type unconfined_service_t;
')
files_tmp_filetrans( { polaris_ncd_t udev_t unconfined_service_t }, polaris_ncd_tmp_t, dir, "ufs")
polaris_btrace_data_manage(polaris_ncd_t)
polaris_chasfs_manage(polaris_ncd_t)
polaris_cpld_read(polaris_ncd_t)
polaris_proc_rmonbifo_read(polaris_ncd_t)
polaris_rmonbifo_tmp_read(polaris_ncd_t)
polaris_boot_tmp_read(polaris_ncd_t)
polaris_disk_crashinfo_getattr(polaris_ncd_t)
polaris_disk_bootflash_read_lnk(polaris_ncd_t)
polaris_flashlib_lock(polaris_ncd_t)
polaris_flashlib_read(polaris_ncd_t)
polaris_read_debug_conf(polaris_ncd_t)
polaris_read_packages_conf(polaris_ncd_t)

brctl_domtrans(polaris_ncd_t)
sysnet_domtrans_ifconfig(polaris_ncd_t)

# ncd.sh invokes ifup which in turn is calling dhclient
sysnet_domtrans_dhcpc(polaris_ncd_t)

type polaris_ncd_etc_t;
files_config_file(polaris_ncd_etc_t)
gen_require(
    attribute domain;
)
files_etc_filetrans(domain, polaris_ncd_etc_t, file, "mount_data")
manage_dirs_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)
manage_files_pattern(polaris_ncd_t, polaris_ncd_etc_t, polaris_ncd_etc_t)

# runs exportsfs command
rpc_read_exports(polaris_ncd_t)
rpc_write_exports(polaris_ncd_t)
rpc_manage_nfs_state_data_dir(polaris_ncd_t)
rpc_manage_nfs_state_data(polaris_ncd_t)
fs_rw_nfsd_fs(polaris_ncd_t)
kernelfw_rpc_sysctls(polaris_ncd_t)
fs_getattr_xattr_fs(polaris_ncd_t)

# reloads xinetd@/tmp/etc/xinetd.conf.consolidated.service and
# systemctl reload xinetd_brelay@eobc.service
systemd_exec_systemctl(polaris_ncd_t)
systemd_reload_all_services(polaris_ncd_t)
systemd_status_all_unit_files(polaris_ncd_t)
polaris_chvrf_domtrans(polaris_ncd_t)
# ncd process calls ifconfig and route and mcp_chvrf
gen_require(
    type polaris_chvrf_t;
)
sysnet_domtrans_ifconfig(polaris_chvrf_t)
allow polaris_chvrf_t self:capability net_admin;
allow polaris_chvrf_t self:udp_socket { create ioctl };
allow polaris_ncd_t self:process setpgid;

polaris_persistent_getattr(polaris_ncd_t)

# access to /etc/sysconfig/network-scripts
sysnet_read_config(polaris_ncd_t)

fs_getattr_tmpfs(polaris_ncd_t)

# manage file under /tmp/etc/ncd_work_dir
gen_require(
    type initrc_tmp_t;
    type initrc_t;
)
filetrans_pattern(polaris_ncd_t, initrc_tmp_t, polaris_ncd_tmp_t, dir, "ncd_work_dir")
polaris_ncd_tmp_manage(polaris_ncd_t)

# /tmp/root/loopback is created by initrc_t but managed by ncd.sh.
# dynamic label directory "/tmp/root/loopback" as polaris_ncd_tmp_t
files_tmp_filetrans(initrc_t, polaris_ncd_tmp_t, dir, "loopback")

# flashutil has wrong file permission
allow polaris_ncd_t self:capability { dac_override sys_resource };

# access to /tmp/etc/xinetd.conf.consolidated
init_read_script_tmp_files(polaris_ncd_t)

allow polaris_ncd_t self:capability net_admin;

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_ncd_t)

# ncd calls mount to handle nfs directories
mount_domtrans(polaris_ncd_t)

#rsync_exec(polaris_ncd_t)
gen_require(
    type rsync_t;
    type rsync_tmp_t;
)
rsync_entry_domtrans(polaris_ncd_t, rsync_t)
allow rsync_t polaris_ncd_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t polaris_ncd_t:fifo_file write;
# PLEASE LOOK AT ME: probably /tmp/rp/active_epoch deserves its own type
# /tmp/rp/active_epoch on its way to /tmp/chassis/local/rp/chasfs/rp/0/0/epoch
manage_files_pattern(polaris_ncd_t, rsync_tmp_t, rsync_tmp_t)
# creates files under /tmp/udev/etc/udev/
 polaris_udev_tmp_manage(polaris_ncd_t)
 allow polaris_ncd_t self:process setfscreate;

# run /sbin/hwclock in its own domain
 clock_domtrans(polaris_ncd_t)
# stdin file descriptor leak when hwclock started
 gen_require('
    type hwclock_t;
   ')
 allow hwclock_t polaris_ncd_tmp_t:fifo_file read;

ifdef('ngwc_family',`
 polaris_setattr_filesystem_disk_ucode(polaris_ncd_t)
 ')

# update /tmp/etc/xinetd.conf.consolidated file
 polaris_etc_append(polaris_ncd_t)

# ncd.sh adds entries to /etc/exports file
 gen_require('
    type etc_t;
 )
 append_files_pattern(polaris_ncd_t, etc_t, etc_t)

# create and write into /tmp/unifiedfs/unifiedfs_log
 manage_files_pattern(polaris_ncd_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

polaris_ncd_rpcinfo_net(polaris_ncd_t)

# accessing /mnt/usb0
 fs_search_removable(polaris_ncd_t)
 polaris_setattr_removable(polaris_ncd_t)
 polaris_setattr_removable(polaris_ufs_helper_t)

# ncd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
# write/create to "/sys/module/nfs/parameters/nfs4_unique_id"
 dev_rw_sysfs(polaris_ncd_t)
 dev_manage_sysfs_dirs(polaris_ncd_t)
 gen_require('
    type sysfs_t;
 )
 create_files_pattern(polaris_ncd_t, sysfs_t, sysfs_t)

# ps needs access to proc_t
 kernel_read_system_state(polaris_ncd_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris.ncd_t)

# send signal to ntpd
ntp_signal(polaris.ncd_t)

# ncd.sh executes hostname
hostname_exec(polaris.ncd_t)

# ncd.sh runs mcp_trace_request.sh
polaris_trace_request_domtrans(polaris.ncd_t)

# handling /usr/binos/conf/iosd_console_attach.sh
polaris_utility_domain_template(console_attach)
polaris_bexecute_domain(polaris.console_attach_t, polaris.console_attach_exec_t)
corecmd_exec_bin(polaris.console_attach_t)
auth_use_nsswitch(polaris.console_attach_t)

# execute ping over liin: usr/binos/conf/mcp_chvrf.sh liin /bin/ping -c 1 -w 300 192.168.1.6
polaris_chvrf_domtrans(polaris.console_attach_t)
# from chvrf.sh code executes ping command
gen_require(
    type polaris_chvrf_t;
')
netutils_domtrans_ping(polaris.chvrf_t)
# send sigchld when it is done
gen_require(
    type ping_t;
')
allow ping_t polaris.console_attach_t:process sigchld;

polaris_boot_tmp_read(polaris.console_attach_t)
polaris_btrace_data_manage(polaris.console_attach_t)
polaris_chasfs_read(polaris.console_attach_t)
polaris_cpld_read(polaris.console_attach_t)
polaris_disk_bootflash_search(polaris.console_attach_t)
polaris_disk_crashinfo_getattr(polaris.console_attach_t)
polaris_ncd_tmp_read(polaris.console_attach_t)
polaris_read_debug_conf(polaris.console_attach_t)
polaris_rmonbifo_tmp_read(polaris.console_attach_t)
polaris_use_btrace_fifo(polaris.console_attach_t)

# read /proc/cmdline
kernel_read_system_state(polaris.console_attach_t)
# read /tmp/myhostname file
polaris_hm_tmp_read(polaris_console_attach_t)

telnet_use_ptys(polaris_console_attach_t)

allow polaris_console_attach_t self:capability sys_resource;
allow polaris_console_attach_t self:process setrlimit;

# getty starts /usr/binos/conf/iosd_console_attach.sh through brelay
gen_require('  
type getty_t;
  ')
polaris_bconsole_domtrans(getty_t)

# console_attach.sh start btelnet.sh over chvrf and bexecute
gen_require('  
type polaris_bexecute_t;
  ')
allow polaris_bexecute_t polaris_console_attach_t:process sigchld;
corenet_tcp_connect_telnetd_port(polaris_bexecute_t)

# handling /usr/binos/conf/unifiedfs/unifiedfs_helper.sh
polaris_utility_domain_template(ufs_helper)

corecmd_exec_bin(polaris_ufs_helper_t)
auth_use_nsswitch(polaris_ufs_helper_t)

# rsync calls unifiedfs_helper.sh
gen_require('  
type rsync_t;
  ')
polaris_ufs_helper_domtrans(rsync_t);

# unifiedfs_helper.sh calls mount to handle nfs directories
mount_domtrans(polaris_ufs_helper_t)

# creates files under /tmp/udev/etc/udev/
polaris_udev_tmp_manage(polaris_ufs_helper_t)

polaris_disk_bootflash_search(polaris_ufs_helper_t)
polaris_ncd_tmp_manage(polaris_ufs_helper_t)
polaris_ncd_etc_read(polaris_ufs_helper_t)

# stat over /tmp/ufs/crashinfo/10.1.1.1
polaris_disk_crashinfo_getattr(polaris_ufs_helper_t)

# unifiedfs_helper.sh creates /tmp/unifiedfs and manages underlying dirs
type polaris_ufs_tmp_t;
files_tmp_file(polaris_ufs_tmp_t)
files_tmp_filetrans(polaris_ufs_helper_t, polaris_ufs_tmp_t, { file dir })
manage_dirs_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)
manage_lnk_files_pattern(polaris_ufs_helper_t, polaris_ufs_tmp_t, polaris_ufs_tmp_t)

# Required for /tmp/unifiedfs access on vWLC
ifdef(`vwlc_platform',`
files_tmp_filetrans(unconfined_service_t, polaris_ufs_tmp_t, dir, "unifiedfs")
')

polaris_nccd_rpcinfo_net(polaris_ufs_helper_t)
polaris_persistent_getattr(polaris_ufs_helper_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_ufs_helper_t)

# ncd.sh read, search, open, creates, add_name and writes to /proc/hanet/tun_local_ip
gen_require(
  type polaris_hanet_proc_t;
  type proc_t;
')
manage_files_pattern(polaris_nccd_t, polaris_hanet Proc_t, polaris_hanet Proc_t)
allow polaris_hanet_proc_t proc_t:filesystem associate;
allow polaris_ufs_helper_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.te
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dnl
dnl May 2018, Manohar Hungund
dnl
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dnl
dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 5)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)
max_bay_ripc_map_set('rp', 'per_bay', 2)
max_bay_ripc_map_set('cc', 'per_bay', 6)
max_bay_ripc_map_set('fp', 'per_bay', 1)

min_bay_ripc_map_set('rp', 'global', 0)
min_bay_ripc_map_set('cc', 'global', 1)
min_bay_ripc_map_set('fp', 'global', 0)

max_bay_ripc_map_set('rp', 'global', 2)
max_bay_ripc_map_set('cc', 'global', 6)
max_bay_ripc_map_set('fp', 'global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set('rp', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('cc', 'elastic', BPROC_ODM, 0)
max_elastic_map_set('fp', 'elastic', BPROC_ODM, 0)

max_elastic_map_set('rp', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('cc', 'elastic', BPROC_WNCD, 0)
max_elastic_map_set('fp', 'elastic', BPROC_WNCD, 0)

# Map BBU TTY to correct device context
/dev/ttyS2 -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

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

#  
# November 2020, Christine Hwang
#
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#  
## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>

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#  
# February 2018, Manohar Hungund
#
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#
## <summary>Polaris ACT2 Chip Device Access Policy Rules.</summary>
# ACT2 Chip Driver policy

### <summary>
## Work (read, write, ioctl) with /dev/act2
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface(`polaris_act2_dev_use',
gen_require(`
    type device_t;
type polaris_act2_device_t;
')
    read_chr_files_pattern($1, device_t, polaris_act2_device_t)
    write_chr_files_pattern($1, device_t, polaris_act2_device_t)
')
```

### <summary>
## Create /tmp/hw_entropy file. Certain platforms save
## entropy from main board ACT-2 chip in this file.
### </summary>
### <param name="domain">
## Domain allowed access.
### </param>

```c
interface(`polaris_hw_entropy_create',
gen_require(`
    type polaris_hw_entropy_t;
type tmp_t;
')
    files_tmp_filetrans($1, polaris_hw_entropy_t, file, "hw_entropy")
    manage_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')
```

### <summary>
## Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode,
## not clear why it couldn't just read it.
```c
```
## Certain platforms save entropy from main board ACT-2 chip in this file.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_hw_entropy_use',
#    gen_require('    
#      type polaris_hw_entropy_t;
#      type tmp_t;
#   ')

  rw_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

#################################################
## Read /tmp/hw_entropy file. Certain platforms save entropy from main board ACT-2 chip in this file.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_hw_entropy_read',
#    gen_require('    
#      type polaris_hw_entropy_t;
#   ')

  read_files_pattern($1, tmp_t, polaris_hw_entropy_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.if
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

policy_module(polarisdmindbmand, 1.0);
gen_require('type polaris_dmi_ndbmand_t;')

polaris_btrace_data_manage(polaris_dmi_ndbmand_t)
polaris_crft_data_manage(polaris_dmi_ndbmand_t)
polaris_chasfs_manage(polaris_dmi_ndbmand_t)
polaris_tdlresolve_read(polaris_dmi_ndbmand_t)
polaris_tdldb_list_dirs(polaris_dmi_ndbmand_t)
polaris_cpld_read(polaris_dmi_ndbmand_t)
polaris_flashlib_read(polaris_dmi_ndbmand_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ndbmand_t)
polaris_db_tdldb_dir_use(polaris_dmi_ndbmand_t)

# work with NDBLOAD_LOCK_PATH
type polaris_dmi_ndbutil_lock_t;
files_tmp_file(polaris_dmi_ndbutil_lock_t)
polaris_ndbload_lock_use(polaris_dmi_ndbmand_t)

optional_policy('allow polaris_dmi_ndbmand_t self:capability { dac_override dac_read_search sys_resource };
logging_send_syslog_msg(polaris_dmi_ndbmand_t)

# create ndbutil directory under /var/lock
polaris_confnd_ndbutil_create(polaris_dmi_ndbmand_t)
polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".l.schema_use.ndbmand")
polaris_confnd_shared_schema_watch(polaris_dmi_ndbmand_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.te
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
policy_module(polarisomp, 1.0);

gen_require(`
    type polaris_omp_t;
`)
polaris_chasfs_manage(polaris_omp_t)
polaris_cpld_read(polaris_omp_t)
polaris_flashlib_read(polaris_omp_t)
polaris_tdlresolve_read(polaris_omp_t)

polaris_ripc_sman_ui_serv_connect(polaris_omp_t)
polaris_db_tdlldb_dir_use(polaris_omp_t)

logging_send_syslog_msg(polaris_omp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_omp_t)

# omp_daemon_init calls posix_sysconf
dev_read_sysfs(polaris_omp_t)

# reads /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_omp_t)

# vip_util_set_fd_limits set files limits
allow polaris_omp_t self:process setrlimit;

# omp connects to omp listener tcp port 17900
corenet_tcp_connect_polaris_omp_port(polaris_omp_t)
# vip_util_reset_ns opens /proc/1/ns/net
polaris_cedge_reset_ns(polaris_omp_t)
# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_omp_t)

#omp_peer_active_connect() binds to OMP address
corenet_tcp_bind_generic_node(polaris_omp_t)
allow polaris_omp_t self:tcp_socket { bind connect create getopt setopt }:

# omp starts worker thread under CPU affinity
allow polaris_omp_t self:process setsched;

# connects to ttm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)
# connects to ftm unix domain socket in msgq_connect_timer
polaris_ttm_var_sock_write(polaris_omp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.te
No license file was found, but licenses were detected in source scan.

#
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#

## <summary>Polaris htx Policy Rules.</summary>

# <summary>Manage polaris_htx_iox_tmp_t in /tmp/HTX-IOX.
</summary>
## <param name="domain">
## Domain allowed access.
</param>
interface('polaris_htx_iox_tmp_manage',
    gen_require('type polaris_htx_iox_tmp_t;

    manage_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_sock_files_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)
    manage_dirs_pattern($1, polaris_htx_iox_tmp_t, polaris_htx_iox_tmp_t)

    allow $1 polaris_htx_iox_tmp_t:dir watch;

    allow $1 polaris_htx_iox_tmp_t:file map;
    
\)

## <summary>Send messages to htx unix datagram sockets.
</summary>
## <param name="domain">
## Domain allowed access.
</param>
# <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
#
#
interface('polaris_sppi_memif_dev_use',
    gen_require(
        type device_t;
        type polaris_sppi_memif_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
    read_chr_files_pattern($1, device_t, polaris_sppi_memif_device_t)
)

#<summary>
## Work with /tmp/HTX-IOX/.
#</summary>
#<param name="domain">
## Domain allowed access.
## </summary>
#</param>
#
interface('polaris_htx_use_client_socket',
    gen_require(
        type polaris_htx_t;
    )
    allow $1 polaris_htx_t:unix_stream_socket connectto;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.if
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polarisesgtamcfg, 1.0);

   type polaris_esg_tam_cfg_t;

   polaris_btrace_data_manage(polaris_esg_tam_cfg_t)
   polaris_chasfs_manage(polaris_esg_tam_cfg_t)
   polaris_tdlresolve_read(polaris_esg_tam_cfg_t)
   polaris_tdlldb_list_dirs(polaris_esg_tam_cfg_t)
   polaris_flashlib_read(polaris_esg_tam_cfg_t)

   polaris_cpld_read(polaris_esg_tam_cfg_t)
   allow polaris_esg_tam_cfg_t self:capability net_admin;

   # handle /tmp/tam_cfg_done
   type polaris_tam_tmp_t;
   files_tmp_file(polaris_tam_tmp_t)
   files_tmp_filetrans(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, dir, "tam_cfg_done")
   manage_files_pattern(polaris_esg_tam_cfg_t, polaris_tam_tmp_t, polaris_tam_tmp_t)
   gen_require(
         type tmp_t;
   ') 
   manage_dirs_pattern(polaris_esg_tam_cfg_t, tmp_t, polaris_tam_tmp_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisfmanfp, 1.0);

   gen_require("
type polaris_fman_fp_t;

polaris_btrace_data_manage(polaris_fman_fp_t)
polaris_crft_data_manage(polaris_fman_fp_t)
polaris_chasfs_manage(polaris_fman_fp_t)
polaris_tdlresolve_read(polaris_fman_fp_t)
polaris_tdlldb_list_dirs(polaris_fman_fp_t)
polaris_cpld_read(polaris_fman_fp_t)
polaris_lua_read(polaris_fman_fp_t)
polaris_flashlib_read(polaris_fman_fp_t)
polaris_rpic_sman_ui_serv_connect(polaris_fman_fp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_fp_t)

#####################################################
# mqipc manual, one that missing in platform tdl file
#####################################################

# mq.-iosd-thr-fmanrp-R0:0
# mq.-iosd-thr-fmanrp-1:R0:0
type polaris_iosd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_thr_fmanrp_mqipc_t)

# mq.-mobilityd-thr-fmanrp-1:R0:0
type polaris_mobilityd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_mobilityd_thr_fmanrp_mqipc_t)

# mq.-smd-thr-fmanrp-1:R0:0
type polaris_smd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_smd_thr_fmanrp_mqipc_t)

# mq.-wncd_0-thr-fmanrp-1:R0:0
type polaris_wncd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncd_thr_fmanrp_mqipc_t)

# mq.-wncmgrd_0-thr-fmanrp-1:R0:0
type polaris_wncmgrd_thr_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_wncmgrd_thr_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-1:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-2:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-3:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mripc_t, iosd-thr-fmanrp-8:R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-5:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-6:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-7:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-8:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mripc_t, mobilityd-thr-fmanrp-R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-1:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-2:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-3:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-4:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-5:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-6:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-7:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-8:R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mripc_t, smd-thr-fmanrp-R1:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mripc_t, wncmgrd-thr-fmanrp-R0:0)
polaris_mripc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mripc_t, wncmgrd-thr-fmanrp-
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncmgrd_thr_fmanrp_mqipc_t, wncmgrd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_0-thr-fmanrp-R1:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-3:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-4:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-5:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-6:R0:0)
optional_policy(')
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-3:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_2-thr-fmanrp-4:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-3:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_3-thr-fmanrp-4:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_4-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_5-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_6-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-1:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_7-thr-fmanrp-2:R0:0)
opolaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R1:0)
')
polaris_cpld_dev_use(polaris_fman_fp_t)
# cpp bleeds into switching platforms through fman_fp and fed
polaris_cpp_process(polaris_fman_fp_t)
polaris_cpp_tmp_files_use(polaris_fman_fp_t)

optional_policy('polaris_cpp_dev_use(polaris_fman_fp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_fman_fp_t)
')
polaris_persistent_manage(polaris_fman_fp_t)
polaris_icc_broken_relocations(polaris_fman_fp_t)

allow polaris_fman_fp_t self:capability dac_override;
allow polaris_fman_fp_t self:capability2 block_suspend;

# when /bootflash or /harddisk are 100% full
allow polaris_fman_fp_t self:capability sys_resource;

# write to devices like this /proc/bus/pci/04/00.0
kernel_read_system_state(polaris_fman_fp_t)
kernal_write_proc_files(polaris_fman_fp_t)

ifdef(`mcp_family',
polaris_cm_fp_tmp_filetrans(polaris_fman_fp_t)
polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory write access
ifdef(`mcp_family',
polaris_dev_mem_use(polaris_fman_fp_t)
')

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCVh58515)
ifdef(`crankshaft_family',
polaris_dev_mem_use(polaris_fman_fp_t)
')
polaris_dyncfg_tmp_read(polaris_fman_fp_t)

# /dev/qae_mem device access on overlord
optional_policy('polaris_qae_dev_use(polaris_fman_fp_t)
')

# access to /dev/icp_XXX device on crankshaft platforms

optional_policy(' 
    polaris_icp_dev_use(polaris_fman_fp_t) 
')

# on qwlc work with /tmp/octeon-remote-lock-pci:0 
ifdef('qwlc_platform',
    polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

ifdef('katar_platform',
    polaris_cm_fp_tmp_manage(polaris_fman_fp_t)
')

optional_policy(' 
    #fman-fp creates tmp files in acl-mgmt workflow. 
    polaris_fman_acl_iptbl_tmp_file(polaris_fman_fp_t) 
')

polaris_iosd_vcpu_read(polaris_fman_fp_t)

# allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine 
fs_read_cgroup_files(polaris_fman_fp_t)
fs_search_cgroup_dirs(polaris_fman_fp_t)

optional_policy(' 
    # Access /dev/cbdma 
    polaris_cbdma_dev_use(polaris_fman_fp_t) 

    # Access /dev/n2_device 
    polaris_n2_dev_use(polaris_fman_fp_t) 
')

polaris_cpp_tmpfs_manage(polaris_fman_fp_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.te
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#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris wncmgrd Policy Rules.</summary>

##########################################################################
## <summary>
## Read access to /bootflash/NACert.pem
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>

interface('polaris_read_icap_cert_file',
    gen_require('type polaris_icap_cert_t;
    )
    allow $1 polaris_icap_cert_t:file read_file_perms;
    )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.if
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# polariskeyman file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.fc
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# polarisnvram file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.fc
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# /3pa staff
/3pa/usr/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib64/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/(.*)?lib/(.*)? -- gen_context(system_u:object_r:lib_t,s0)
/3pa/usr/(.*)?sbin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/(.*)?bin/(.*)? -- gen_context(system_u:object_r:bin_t,s0)
/3pa/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)
/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)
/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virt_lxc_exec_t,s0)
/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)
/3pa/usr/sbin/virsh -- gen_context(system_u:object_r:virsh_exec_t,s0)
/usr/bin/os/conf/libvirtd.sh -- gen_context(system_u:object_r:virtd_initrc_exec_t,s0)
/3pa/etc/libvirt/(.*)? -- gen_context(system_u:object_r:virt_etc_t,s0)
/3pa/etc/logrotate.d/(.*)? -- gen_context(system_u:object_r:etc_t,s0)

# should go into contrib/telnet.fc?
/usr/bin/os/sbin/in.telnetd -- gen_context(system_u:object_r:telnetd_exec_t,s0)

# load_crash_kernel.sh loads crash kernel - it should be executable
/crashkernel/load_crash_kernel.sh -- gen_context(system_u:object_r:bin_t,s0)

# /etc/lablogin.sh is executed during telnet login over management port
# it should be executable. Also having shell_exec_t label will allow it
# to transition into unconfined domain
/etc/lablogin.sh -- gen_context(system_u:object_r:shell_exec_t,s0)

# /etc/init.d/*functions files should be actually in bin_t domain, the same
# as /etc/init.d/functions. Note using /etc/rc.d/init.d/ instead of
# /etc/init.d/ because we have substitution rule in file_contexts.subs_dist
/etc/rc.d/init.d/binos_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/binos_functions-pd -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/chasxml_functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/common-utility-functions -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc.d/init.d/rh-functions -- gen_context(system_u:object_r:bin_t,s0)

# tftp directories
/tftp/dgen_context(system_u:object_r:tftpdir_rw_t,s0)
/tftp/p?gen_context(system_u:object_r:tftpdir_rw_t,s0)

# /tmp/sw
/tmp/sw -d gen_context(system_u:object_r:tmp_t,s0)
# /tmp/etc
/tmp/etc -d gen_context(system_u:object_r:polaris/etc_t,s0)

# /tmp/sv
/tmp/sv -d gen_context(system_u:object_r:polaris/sv/tmp_t,s0)

# firmware files
/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/upgrade(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)
/golden(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)

# CC card fpd files mark it as usr_t for now
/fpd(/.*)? -- gen_context(system_u:object_r:polaris_firmware_t,s0)

/tmp/debug.conf -l gen_context(system_u:object_r:polaris_debug_conf_t,s0)

/var/ODM/ios_core.p7b -- gen_context(system_u:object_r:etc_t,s0)

/dev/ddr -c gen_context(system_u:object_r:polaris_ddr_device_t,s0)
/dev/i2c-[0-9]* -c gen_context(system_u:object_r:polaris_i2c_device_t,s0)

/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/bin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/wbin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/lib64/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/bin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/sbin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/lib64/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/bin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/sbin/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/usr/binos/lib64/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/(.*)?\.ebf(/.*)? gen_context(system_u:object_r:polaris_ebf_t,s0)

# interpreter for CRDL 32bit IOSD setup proper memory map
/usr/binos/bin/crdl_mini_loader gen_context(system_u:object_r:ld_so_t,s0)

# firmware package mount point on asr1k platforms
/mnt/firmware(/.*)? gen_context(system_u:object_r:polaris_firmware_t,s0)

/bootflash/.USWAP(/.*)? gen_context(system_u:object_r:polaris_uswap_files_t,s0)
# Nutella EFI folder
/bootflash/EFI(\.*)?  gen_context(system_u:object_r:polaris_efi_files_t,s0)

# for cat9k platform
/mnt/sd3/user/.USWAP(\.*)?  gen_context(system_u:object_r:polaris_uswap_files_t,s0)

/tmp/rsync_log_dir(\.*)?  gen_context(system_u:object_r:polaris_rsync_tmp_t,s0)

# for wlc awips feature
/bootflash/awips.json  gen_context(system_u:object_r:polaris_awips_signature_file_t,s0)

# for wlc iot-gw feature to access /bootflash/certs dir
/bootflash/certs  -d  gen_context(system_u:object_r:polaris_ap_cert_file_t,s0)

# for curl - and allowing ip netns exec X curl
/usr/bin/curl  --  gen_context(system_u:object_r:polaris_curl_exec_t,s0)

# Katar WLC needs access to /tmp/ldwm_envelope
/tmp/ldwm_envelope  --  gen_context(system_u:object_r:polaris_ldwm_envelope_tmp_t,s0)

# CLI: show platform software tech-support
/usr/bin/os/conf/platform_tech_support.sh  --  gen_context(system_u:object_r:polaris_tech_support_exec_t,s0)

# Tamlib debug file
/bootflash/tamlib_dbg_log  --  gen_context(system_u:object_r:polaris_tamlib_dbg_file_t,s0)

# cryptsetup - some platforms copy cryptsetup in /bin
/bin/cryptsetup  --  gen_context(system_u:object_r:lvm_exec_t,s0)
/usr/bin/cryptsetup  --  gen_context(system_u:object_r:lvm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define(`polaris_process', `')
dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_if.m4
  No license file was found, but licenses were detected in source scan.

#
policy_module(polarisiptbl, 1.0);

polaris_process_domain_template(iptbl)
corecmd_exec_bin(polaris_iptbl_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_iptbl_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_iptbl_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_iptbl_t)

# work with /tmp files

type polaris_iptbl_tmp_t;
files_tmp_file(polaris_iptbl_t, polaris_iptbl_tmp_t)
manage_dirs_pattern(polaris_iptbl_t, tmp_t, polaris_iptbl_tmp_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
manage_fifo_files_pattern(polaris_iptbl_t, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)
files_tmp_filetrans(polaris_iptbl_t, polaris_iptbl_tmp_t, { file dir })

allow polaris_iptbl_t self:capability sys_resource;
allow polaris_iptbl_t self:process setpgid;

polaris_btrace_data_manage(polaris_iptbl_t)
polaris_cpld_read(polaris_iptbl_t)
polaris_chasfs_manage(polaris_iptbl_t)
polaris_boot_tmp_read(polaris_iptbl_t)
polaris_rmonbifo_tmp_read(polaris_iptbl_t)
polaris_proc_rmonbifo_getattr(polaris_iptbl_t)
polaris_proc_rmonbifo_read(polaris_iptbl_t)
polaris_disk_crashinfo_getattr(polaris_iptbl_t)

# execute /etc/init.d/iptables in its own domain
iptables_initrc_domtrans(polaris_iptbl_t)
# LOOK AT ME iptbl.sh puts symbolic links into /sbin directory
# need to fix manifest instead, so it will be static
gen_require(
    type bin_t;
)
manage_lnk_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_inssmod(polaris_iptbl_t)
iptables_domtrans(polaris_iptbl_t)

# iptbl.sh calls /etc/init.d/iptables restart and that needs
# read /proc/pid/net/ip_tables_names file
kernel_read_network_state(polaris_iptbl_t)
# creates /var/lock/subsys/iptables
type polaris_iptables_lock_t;
files_lock_file(polaris_iptables_lock_t)
manage_files_pattern(polaris_iptbl_t, polaris_iptables_lock_t, polaris_iptables_lock_t)
files_lock_filetrans(polaris_iptbl_t, polaris_iptables_lock_t, file)

# needs access to /run/nets as part of chvrf invocation
fs_read_nfs_files(polaris_iptbl_t)
# iptbl.sh invokes iptable command which runs in iptables_t label and needs
# access to meta files created by iptbl.sh with label polaris_iptbl_tmp_t
allow iptables_t polaris_iptbl_tmp_t:fifo_file read_file_perms;
allow iptables_t polaris_iptbl_tmp_t:file read_file_perms;

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',`
optional_policy(
    polaris_ncd_tmp_read(polaris_iptbl_t)
')
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.te
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/usr/bin/bhytoolsd -- gen_context(system_u:object_r:polaris_bhytoolsd_exec_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.fc
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#

policy_module(polarisautoupgrade, 1.0);

gen_require('  
    type polaris_autoupgrade_t;
')

corecmd_exec_bin(polaris_autoupgrade_t)
corecmd_exec_shell(polaris_autoupgrade_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_autoupgrade_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_autoupgrade_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_autoupgrade_t)

allow polaris_autoupgrade_t self:capability { sys_resource dac_override };
allow polaris_autoupgrade_t self:process setpgid;

polaris_tldldb_list_dirs(polaris_autoupgrade_t)

polaris_btrace_data Manage(polaris_autoupgrade_t)
polaris_chasfs Manage(polaris_autoupgrade_t)
polaris_cpld_read(polaris_autoupgrade_t)
polaris_proc_rmonbifo_read(polaris_autoupgrade_t)
polaris_rmonbifo_tmp_read(polaris_autoupgrade_t)
polaris_boot_tmp_manage(polaris_autoupgrade_t)
polaris_read_debug_conf(polaris_autoupgrade_t)
polaris_disk_crashinfo_getattr(polaris_autoupgrade_t)

type polaris_autoupgrade_tmp_t;
files_tmp_file(polaris_autoupgrade_tmp_t)
#/tmp/etc/installer
gen_require('  
    type polaris_etc_t;
')
filetrans_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t, dir, "installer")
manage_fifo_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_etc_t, polaris_autoupgrade_tmp_t)
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, polaris_autoupgrade_tmp_t)

# Allow access to bootflash
polaris_bootflash_read(polaris_autoupgrade_t)

# Allow access to packages.conf
polaris_read_packages_conff(polaris_autoupgrade_t)

# needs to run pidof
dev_read_sysfs(polaris_autoupgrade_t)
kernel_read_system_state(polaris_autoupgrade_t)
domain_read_all_domains_state(polaris_autoupgrade_t)

# send syslog
logging_send_syslog_msg(polaris_autoupgrade_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_autoupgrade_t)
gen_require('  
    type rsync_t;
  ')
allow rsync_t polaris_autoupgrade_t:process sigchld;

# /tmp/ufs/crashinfo access
optional_policy('  
polaris_ncd_tmp_read(polaris_autoupgrade_t)
  ')

# autoupgrade script in case of HA setup invokes brelay to trigger install of stand-by
polaris_bexecute_domtrans(polaris_autoupgrade_t)

polaris_flashlib_lock(polaris_autoupgrade_t)
polaris_flashlib_read(polaris_autoupgrade_t)
polaris_disk_install_read(polaris_autoupgrade_t)
polaris_install_engine_domtrans(polaris_autoupgrade_t)

#add transition to create /var/installer by autoupgrade
type polaris_autoupgrade_var_t;
files_tmp_file(polaris_autoupgrade_var_t)
files_var_filetrans(polaris_autoupgrade_var_t, {file dir})
gen_require('  
    type polaris_autoupgrade_exec_t;
  ')

#add transition to create /var/installer/auto_upgrade_helper.sh by autoupgrade
filetrans_pattern(polaris_autoupgrade_t,polaris_autoupgrade_var_t, polaris_autoupgrade_exec_t, file,
"auto_upgrade_helper.sh")
manage_files_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)
manage_dirs_pattern(polaris_autoupgrade_t, polaris_autoupgrade_var_t, polaris_autoupgrade_var_t)

#add transition to create files/dir in /tmp
files_tmp_filetrans(polaris_autoupgrade_t, polaris_autoupgrade_tmp_t, {file dir})

# access to /tmp/installer
polaris_install_tmp_manage(polaris_autoupgrade_t)
fs_getattr_tmpfs(polaris_autoupgrade_t)

# access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_autoupgrade_t)

# access to /harddisk link (accessed by flashutil and rotee call)
polaris_disk_harddisk_read_lnk(polaris_autoupgrade_t)
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)

gen_require(
    type polaris_autoupgrade_t;
    type polaris_autoupgrade_exec_t;
')
rsync_entry_domtrans(polaris_autoupgrade_t, rsync_t)
polaris_bexecute_domain(polaris_autoupgrade_t, polaris_autoupgrade_exec_t)
fs_getattr_xattr_fs(polaris_autoupgrade_t)

# auto_upgrade_helper.sh creates /var/installer/auto_upgrade_helper.sh
allow polaris_autoupgrade_t polaris_autoupgrade_exec_t:file { create setattr write };

# rsync operations for members and standby rps on autoupgrade
gen_require(
    type rsync_port_t;
')
allow polaris_autoupgrade_t rsync_port_t:tcp_socket name_connect;

# rsync requires to relabel /var/installer/auto_upgrade_helper.sh on standby
gen_require(
    type var_t;
')
allow rsync_t var_t:file relabelfrom;
allow rsync_t polaris_autoupgrade_exec_t:file relabelto;

# access to /vol/harddisk/*.pkg
polaris_getattr_file_harddisk(polaris_autoupgrade_t)
# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_autoupgrade_t)

polaris_getattr_file_harddisk(polaris_autoupgrade_t)

# auto_upgrade_client.sh access to "/tmp/sw/rp/0/0/rp_base/mount/bin/cut"
polaris_issu_tmp_files_read(polaris_autoupgrade_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.te
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/bin/os/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef(`nyquist_platform',`
/usr/bin/os/conf/standby_ioxcfg.sh -- gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
/mnt/sd3/iox_alt_hdd.disk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
')

ifdef(`passport_platform',`
/flash1/iox_alt_hdd.disk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/caf(/.*)? gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash1/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)
/usr/bin/os/conf/standby_ioxcfg.sh gen_context(system_u:object_r:polaris_sioxcd_rp_exec_t,s0)
/tmp/app_host(/.*)? gen_context(system_u:object_r:polaris_sioxcd_rp_tmp_t,s0)
')

# All possible accesses from /bootflash/iox_alt_hdd_mount_dir (iox_polaris.conf)
/bootflash/iox_alt_hdd.dsk gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir(/.*)? gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/bootflash/iox_alt_hdd_mount_dir/guest_share(/.*)? gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/bootflash/user/gs_script/sss(/.*)? gen_context(system_u:object_r:polaris_iox_ss_disk_t,s0)

# All the possible IOX guestshell_dir from iox_polaris.conf
/guestshell(/.*)? sh gen_context(system_u:object_r:polaris_guestshell_exec_t,s0)
/guestshell(/.*)? gen_context(system_u:object_r:polaris_guestshell_t,s0)

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf
/bootflash/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash1/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash11/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/harddisk/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/disk0/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/usb1/iox(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/bootflash/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash1/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash11/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/harddisk/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/disk0/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/usb1/iox_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/bootflash/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/sd3/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash1/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/flash11/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/harddisk/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/disk0/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)
/mnt/vol/usb1/iox_host_data_share(/.*)? gen_context(system_u:object_r:polaris_iox_files_t,s0)

/opt/cisco/caf/scripts(/.*)? sh gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/opt/cisco/caf(/.*)? gen_context(system_u:object_r:polaris_caf_files_t,s0)
/opt/cisco/caf -d gen_context(system_u:object_r:polaris_caf_files_t,s0)
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/var/log/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_log_t,s0)
/etc/guestshell_rsa_key\.*  gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)
/etc/guestshell_rsa_key  gen_context(system_u:object_r:polaris_guestshell_ssh_key_t,s0)
/tmp/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/bootflash/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/mnt/sd3/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash1/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/flash11/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/harddisk/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/disk0/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/vol/usb1/caf(/.*)?  gen_context(system_u:object_r:polaris_caf_tmp_files_t,s0)
/var/run/netns/guestshell  gen_context(system_u:object_r:polaris_guestshell_var_run_t,s0)
/var/run/cisco_cli(/.*)?  gen_context(system_u:object_r:polaris_caf_var_run_t,s0)
/tmp/ttyF(.*)(/.*).  gen_context(system_u:object_r:fifo_var_run_t,s0)

# All the possible IOX bootflash/guest-share directory. This directory is shared between IOS and IOX
/bootflash/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/mnt/sd3/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flash11/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/harddisk/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/disk0/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/vol/usb1/guest-share(/.*)?  gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.fc
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#
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#
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#

# polarisfnfagg file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.fc
No license file was found, but licenses were detected in source scan.

#
## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if
No license file was found, but licenses were detected in source scan.

# polarisplogd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl divert(-1)

include(`polaris_process.m4')
include(`polaris_process_if.m4')

include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_if.m4')

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_if.m4')

include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',``)
define(`polaris_cipc_service_server',``)
include('polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform IPC Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_if.m4
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
/
tmp\1 ndbutil-loadgen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)
tmp\1 ndbutil-use gen_context(system_u:object_r:polaris_dmi_ndbutil_lock_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmindbmand.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/dev/cpp_vxe_rsrc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_dev_info -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_kipc -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
# on lnx box
/dev/octeon_device -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/cpp_pdma -c gen_context(system_u:object_r:polaris_cpp_device_t,s0)
/dev/i95_[0-9]* -c gen_context(system_u:object_r:polaris_i95_device_t,s0)

/dev/shm/cpp_* -c gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem.cpp_* -c gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem\CPP_* -c gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
/dev/shm/sem\CGM_SHM_SEM -c gen_context(system_u:object_r:polaris_cpp_tmpfs_t,s0)
policy_module(polarisservicemgr, 1.0);

    gen_require('''
            type polaris_service_mgr_t;
    ')

polaris_btrace_data_manage(polaris_service_mgr_t)
polaris_crft_data_manage(polaris_service_mgr_t)
polaris_chasfs_manage(polaris_service_mgr_t)
polaris_cpld_read(polaris_service_mgr_t)
polaris_flashlib_read(polaris_service_mgr_t)
polaris_lua_read(polaris_service_mgr_t)
polaris_tdlresolve_read(polaris_service_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_service_mgr_t)
polaris_db_tdldb_dir_use(polaris_service_mgr_t)

    # Use REPM MQIPC for replication
polaris_repm_peer_mqipc_manage(polaris_service_mgr_t)

    #watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_service_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.te
No license file was found, but licenses were detected in source scan.
policy_module(polarispvp, 1.0);

polaris_process_domain_template(pvp)

# transition to pman domain, once pman is invoked by pvp
polaris_pman_domtrans(polaris_pvp_t)

corecmd_exec_bin(polaris_pvp_t)
corecmd_exec_shell(polaris_pvp_t)
# can execute hostname in pvp domain
hostname_exec(polaris_pvp_t)
# can execute process in polaris domain
polaris_exec(polaris_pvp_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pvp_t)

# allow to get getattr of /proc file system during find over it
kernel_getattr_proc(polaris_pvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pvp_t)

# all to read sysctl files in /proc directory
kernel_read_all_sysctls(polaris_pvp_t)

# work with /tmp files
type polaris_pvp_tmp_t;
files_tmp_file(polaris_pvp_tmp_t)
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_pvp_tmp_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
files_tmp_filetrans(polaris_pvp_t, polaris_pvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, dir, "pvp")

# /tmp/silent_roll_select.log handling on Macallan
filetrans_pattern(domain, tmp_t, polaris_pvp_tmp_t, file, "silent_roll_select.log")
# work with /tmp/[rp][fp][cc]/pvp/process_state files

```c

type polaris_process_state_t;
files_tmp_file(polaris_process_state_t)
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_process_state_t, dir, "process_state")
```

# LOOK AT ME now all polaris process can change each other process
# state. Need to fix it with more process specific labels in case
# when polaris_domain_process becomes template.

gen_require(`
    attribute polaris_domain;
`)

domain_read_all_domains_state(polaris_pvp_t)

# pvp.sh can call logger command
logging_send_syslog_msg(polaris_pvp_t)

# should it not be moved to dmidecode module or better
# change script to call dmidecode with stdin redirected
# from /dev/null (i.e dmidecode < /dev/null)
gen_require(`
type dmidecode_t;
')
polaris_pvp_stdio_read(dmidecode_t)

# read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# allow polaris_pvp_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_pvp_t)

gen_require(
    type initrc_t;
    type init_t;
')
#init_script_tmp_filetrans(initrc_t, polaris_pvp_tmp_t, file, "iosd_memory_share")
files_tmp_filetrans({ initrc_t init_t }, polaris_pvp_tmp_t, file, "iosd_memory_share")

polaris_systemd_tmpfiles_tmp_filetrans(polaris_pvp_tmp_t, dir, "max_elastic_bays")

# direct access to serial TTY devices like /dev/ttyS1
term_write_unallocated_ttys(polaris_pvp_t)

# For Cabo, allow access to GNSS device
ifdef("cabo_platform",
    polaris_cabo_gnss_dev_use(polaris_pvp_t)
')

# on ultra pvp calls hv_ttyprobe utility to figure out what terminal
# to use as console, and this one need read access to terminal. There is
# no separate macro for read only. But since we granting write to everyone
# let use 'use' which means read/write
ifdef("vxe_family",
    term_use_unallocated_ttys(polaris_pvp_t)
')
ifdef("wlc_family",
    term_use_unallocated_ttys(polaris_pvp_t)
')
# pvp's linux_iosd_image_env.sh will check /dev/ttyUSB* ports with hv_ttyprobe too.
term_use_usb_ttys(polaris_pvp_t)

# allow access and modify files in /tftp directory, cannot use tftp_manage_rw_content
# since it does not cover link files
gen_require(
    type tftpdir_rw_t;
')
manage_dirs_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
manage_lnk_files_pattern(polaris_pvp_t, tftpdir_rw_t, tftpdir_rw_t)
# ASR1K modular platforms create /tftp/inv/inventory_$fru_$slot.bin
# /tftp/inv is not a softlink but a directory for asr1k Modular platforms.
# So it needs a file transition to polaris_chasfs_t for accessing it.
ifdef(`mcp_family',`
  filetrans_pattern(domain, tftpdir_rw_t, polaris_chasfs_t, dir, "inv")
')
# on ultra platform hv_ttyprobe utility that runs under polaris_pvp_t label
# checks for existence of /boot/ttyS0_ignore file; and since /boot is symlink
# to /varied it need dir search permission over polaris_disk_varied_t
ifdef(`vxe_family',`
  polaris_disk_varied_search(polaris_pvp_t)
')
ifdef(`wlc_family',`
  polaris_disk_varied_search(polaris_pvp_t)
')

# pvp.sh calls cp utility with -a option that should preserve files
# attributes as result cp needs to perform set_process_security_ctx call
# which in turns calls setfscreatecon
allow polaris_pvp_t self:process setfscreate;

# pvp.sh calls pidof utility and it needs read access to sysfs_t
# When resetting a partner, pvp writes to the PCIe switch global
# reset register using the i2c driver, which is also sysfs_t
# LOOK AT ME should we create a new type for the PCIe switch reg
dev_rw_sysfs(polaris_pvp_t)

# wants to execute /bin/dmesg
dmesg_domtrans(polaris_pvp_t)

# wants to read from /tmp/rp/pvp/work/inot_fifo
gen_require(`
  type dmesg_t;
')
rw_fifo_files_pattern(dmesg_t, polaris_pvp_tmp_t, polaris_pvp_tmp_t)

# wants to write into /bootflash/.prst_sync
polaris_persistent_manage(polaris_pvp_t)

# pvp tried to find all except hman polaris process with
# `find /tmp/rp/process -name *.pid ! -name *hman* -printf %p' command
# should be able to read pman tmp files
polaris_pman_read_tmp_files(polaris_pvp_t)

# on way down pvp.sh call 'workon.sh rp 0 rotate force' so we
# need to transition and run it in btrace_rotate domain
polaris_btrace_rotate_domtrans(polaris_pvp_t)

# on way down pvp.sh checks for *.TEMP_IN_PROGRESS in /misc/scratch/core
# need to be able read /misc/scratch link
polaris_disk_bootflash_read_lnk(polaris_pvp_t)

# implode.sh things, should we run them in its own domain?

# removes /etc/exports, create a new empty one and runs 'exportfs -ua'
# this action also needs kernel_rwlock_rpc_sysctls to flush
files_manage_exports(polaris_pvp_t)
gen_require(
    type exports_t;
)
allow polaris_pvp_t exports_t:file delete_file_perms;
rpc_write_exports(polaris_pvp_t)
rpc_manage_nfs_state_data(polaris_pvp_t)
kernel_rwlock_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)

# pvp on 1ng attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmp/iosd_level
polaris_lm_tmp_read(polaris_pvp_t)
allow polaris_pvp_t self:capability dac_override;

# in some image pvp needs to monut /tmp/rp/tdldb, in other images
# it got mount by chasfs_boottime.sh systemd unit
polaris_tdldb_manage_dirs(polaris_pvp_t)
mount_domtrans(polaris_pvp_t)

# in some cases pvp script creates /tmp/xx/process directory
polaris_pman_tmp_filetrans(polaris_pvp_t, dir, "process")
polaris_pman_manage_tmp_files(polaris_pvp_t)

# on ngwc pvp creates /flash1/NVRAM directory
gen_require(
    type polaris_nvram_file_t;
    type root_t;
)
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "flash1")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)

# obtain access to rommon vars which live in flashlib
polaris_flashlib_read(polaris_pvp_t)
polaris_flashlib_write(polaris_pvp_t)

#define on ngwc platforms pvp creates a /obfl_cc directory and soft links it
#define to the correct vbd device
ifndef("ngwc_family",
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
    )
    filetrans_pattern(polaris_pvp_t, root_t, polaris_obfl_data_t, dir, "obfl_cc")
    )
#endif on ngwc platforms pvp needs to be able to determine if the the vbd devices
#define exist. The types may be slightly different depending on whether the cc's
#define device node is managed by udev or not
ifndef("ngwc_family",
    dev_getattr_generic_blk_files(polaris_pvp_t)
    storage_getattr_fixed_disk_dev(polaris_pvp_t)
    udev_read_db(polaris_pvp_t)
    )
#endif on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
#define to the correct silent roll software package via vbd_sr_app_init()
ifndef("ngwc_family",
    polaris_sw_data_manage(polaris_pvp_t)
    )
#endif on blackheart pvp creates /blackheart_config directory
ifndef("blackheart_platform",
    gen_require(
        type polaris_nvram_file_t;
        type root_t;
    )
    filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "blackheart_config")
    manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    )
#endif on sparrow pvp creates /sparrow_config directory
ifndef("sparrow_platform",
    gen_require(
        type polaris_nvram_file_t;
        type root_t;
    )
    filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "sparrow_config")
    manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
    )
#endif on Aventus pvp creates /aventus_config directory
ifndef("aventus_platform",

gen_require('  
  type polaris_nvram_file_t;
  type root_t;
')
filetrans_pattern(polaris_pvp_t, root_t, polaris_nvram_file_t, dir, "aventus_config")
manage_dirs_pattern(polaris_pvp_t, polaris_nvram_file_t, polaris_nvram_file_t)
fs_manage_configfs_files(polaris_pvp_t)
')

# on utah for cc and on lng cyan_init.sh is executed by pvp
polaris_dyncfg_domtrans(polaris_pvp_t)
# should it not be moved to cyan module or better
# change script to call cyan_init.sh with stdin redirected
# from /dev/null (i.e cyan_init.sh < /dev/null)
gen_require('  
  type polaris_dyncfg_t;
')
polaris_pvp_stdin_read(polaris_dyncfg_t)

# mktmpfd checks /tmp file system attributes
fs_getattr_tmpfs(polaris_pvp_t)

optional_policy('  
  # pvp on nyquist ls /tmp/ufs/crashinfo
  polaris_nccd_tmp_read(polaris_pvp_t)
')

# transition to polaris_load_usbnet_t, once load_usbnet.sh is invoked by pvp
# crankshaft platforms need access to configfs
ifdef('crankshaft_family',
  polaris_load_usbnet_domtrans(polaris_pvp_t)
  gen_require('  
    type configfs_t;
')
  allow polaris_pvp_t configfs_t:dir getattr;
')

# runs rsync -ptgoDLq /bootflash/.installer/issu_crash/fru_crash rsync://rp0-0/bootflash/.installer/... 
rsync_entry_type(polaris_pvp_t)
ifdef('ngwc_family',
  polaris_chvrf_domtrans(polaris_pvp_t)
  gen_require('  
    type rsync_t;
')
  allow rsync_t polaris_pvp_t:process sigchld;
)

# pvp_tmp file descriptor leaks into mcp_chvrf.sh
gen_require(' 
    type polaris_chvrf_t;  
    type polaris_pvp_tmp_t;  
');
allow polaris_chvrf_t polaris_pvp_tmp_t:fifo_file { ioctl read };  
')

# statfs64 over /tmp
fs_getattr_xattr_fs(polaris_pvp_t)

polaris_tdlresolve_read(polaris_pvp_t)

corenctcp_connect_rsync_port(polaris_pvp_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pvp_t)

# runs over /proc/
kernel_read_network_state_symlinks(polaris_pvp_t)

# work with mounts
mount_domtrans(polaris_pvp_t)

optional_policy('  
    # pvp.sh may mark or clear bits in /proc/exiting_bays
    polaris_rw_exiting_bays(polaris_pvp_t)
  ')

optional_policy('  
    container_runtime_domtrans(polaris_pvp_t)
  ')

# LOOK AT ME /usr/binos/conf/dockerd_env.sh not only sets environment
# it also does quite a bit of action in context of pvp when it got
# sourced before dockerd start
optional_policy('  
    fs_getattr_all_fs(polaris_pvp_t)
    files_getattr_all_dirs(polaris_pvp_t)
    fs_read_nsfs_files(polaris_pvp_t)
    container_manage_config_files(polaris_pvp_t)
    polaris_caf_files_read(polaris_pvp_t)
    # creates /var/log/docker/docker.log
    logging_manage_generic_logs(polaris_pvp_t)
    gen_require('  
        type var_log_t;
    ')
    allow polaris_pvp_t var_log_t:dir create;
  ')


# support uswap feature.
# pvp script create and deletes
# the /bootflash/.uswap/... folder.
type polaris_uswap_files_t;
files_type(polaris_uswap_files_t)
polaris_pfile_type(polaris_uswap_files_t)
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_uswap_files_t, dir, ",USWAP")
manage_dirs_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)
manage_link_files_pattern(polaris_pvp_t, polaris_uswap_files_t, polaris_uswap_files_t)

# support for pvp to create /harddisk/.CRFT directory
filetrans_pattern(polaris_pvp_t, polaris_disk_bootflash_t, polaris_crft_data_t, dir, ",.CRFT")

# Support SAI
type polaris_pvp_sai_t;
files_tmp_file(polaris_pvp_sai_t)
filetrans_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t, dir, "sai_process")
manage_dirs_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)
manage_lnk_files_pattern(polaris_pvp_t, polaris_pvp_tmp_t, polaris_pvp_sai_t)

# all processes controlled by pchort require access to sai files
gen_require(
    attribute polaris_domain;
)
polaris_pvp_read_sai_files(polaris_domain)

ifdef(`ngwc_family',`
    # ngmod_vbd_handle_mount@.service started by pvp on macallan
    systemd_config_generic_services(polaris_pvp_t)
    ')

type polaris_pvp_var_run_t;
files_pid_file(polaris_pvp_var_run_t)
gen_require(
    type var_run_t;
    ')
manage_files_pattern(polaris_pvp_t, var_run_t, polaris_pvp_var_run_t)
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ",.uswap_clr_rp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ",.uswap_clr_fp")
files_pid_filetrans(polaris_pvp_t, polaris_pvp_var_run_t, file, ",.uswap_clr_cc")

    # watch over /tmp/rp/pvp/control
    allow polaris_pvp_t polaris_pvp_tmp_t:dir watch;

    ## permissions required during shutdown

    # implode.sh 'systemctl reboot' uses dbus
dbus_system_bus_client(polaris_pvp_t)

# and checks reboot.target
systemd_status_power_services(polaris_pvp_t)

# writes sysctl_i2c.lck file
gen_require(‘
    type polaris_cm_rp_tmp_t;
’)files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctl_i2c.lck")polaris_cm_rp_tmp_manage(polaris_pvp_t)

# journalctl and ifconfig are used when gathering logs during a punt-inject
# crash
journalctl_domtrans(polaris_pvp_t)sysnet_domtrans_ifconfig(polaris_pvp_t)# and allow it to write to our shutdownlog
gen_require(‘
    type ifconfig_t;
’)polaris_btrace_data_manage_all(ifconfig_t)

# implode.sh checks ip interfaces before ifconfig
polaris_socketat_nsfs_read(polaris_pvp_t)

# cedge uses logrotate
polaris_ripc_confd_ipc_connect(polaris_pvp_t) # logrotate perms
polaris_confd_var_log_manage(polaris_pvp_t)allow polaris_pvp_t self:capability { chown fowner };
# var_lib stuff
files_manage_urandom_seed(polaris_pvp_t)

# vconfd_script_admin_tech.sh is invoked by pvp.sh. This requires a domain
# transition from pvp to admin tech context.
polaris_admin_tech_domtrans(polaris_pvp_t)

## systemreport related permissions
# pd_info collection when triggering systemreport
# fdisk permissions
storage_raw_read_fixed_disk( polaris_pvp_t );fstools_manage_entry_files( polaris_pvp_t );fstools_exec( polaris_pvp_t );polaris_rommon_device_read(polaris_pvp_t)# dmesg writes to pd_info pathwrite_files_pattern(dmesg_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t )gen_require(‘
type admin_home_t;
')
# top creates/writes dir /.config
allow polaris_pvp_t admin_home_t:dir { add_name create write };
# drop-caches
kernel_rw_vm_sysctls( polaris_pvp_t );

# systemreport collection reads all sorts of files
# but also deletes those files afterwards...
logging_manage_audit_log(polaris_pvp_t)

# report collects maroon data
polaris_maroon_data_manage_all(polaris_pvp_t);
polaris_tdlresolve_manage(polaris_pvp_t);

# collect udev log
polaris_udev_tmp_manage(polaris_pvp_t)

init_status(polaris_pvp_t);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`ripc_stem', `translit(patsubst($1, `-ripc$', `'), `-', `_'))
define(`ripc_label', `format(`polaris_%s_ripc_port_t', ripc_stem($1)))

dnl Ripc Type Map: track that type declations unique
define(`ripc_type_map', `defn(format(``ripc_type_map[%s]\", \$1\')))
define(`ripc_type_map_set', `define(format(``ripc_type_map[%s]\", \$1\', \$2\'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
policy_module(polarisquack, 1.0);

# Quack Driver policy

type polaris_quack_device_t;
decl_node(polaris_quack_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.te
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# March 2017, Victor Kamensky

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# Polaris lua files
/la/(.*/)?(.*)\lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/binos/conf/(.*/)?(.*)\lua--gen_context(system_u:object_r:polaris_lua_file_t,s0)
/la/(.*/)?(.*)\so --gen_context(system_u:object_r:lib_t,s0)
/la/(.*/)?(.*) -dgen_context(system_u:object_r:usr_t,s0)
/la -dgen_context(system_u:object_r:usr_t,s0)

#Polaris nginx lua files
/var/scripts/la/(.*/)? -- -d gen_context(system_u:object_r:polaris_lua_file_t,s0)
/var/scripts/la/(.*/)? -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

# why did we put .so libraries in /var directory?
/var/LibLua/LuaXML_lib.so --gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/cjson.so --gen_context(system_u:object_r:lib_t,s0)
/var/LibLua/(.*)\lua --gen_context(system_u:object_r:polaris_lua_file_t,s0)

#/la -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/la/(.*/)? -- gen_context(system_u:object_r:polaris_lua_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky

#
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#
/tmp/sw/cfg(/.*)?      gen_context(system_u:object_r:polaris_cfg_data_t,s0)
/usr/bin/os/conf/cfg_sync.sh --  gen_context(system_u:object_r:polaris_cfg_sync_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.fc
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
#
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#
/var/log/dmi(/.*)?                      gen_context(system_u:object_r:polaris_dmi_var_log_t,s0)
/tmp/stream-parsers(/.*)?               gen_context(system_u:object_r:polaris_dmi_parser_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiopdatamgrd.fc
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# # June 2017, Victor Kamensky
#
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#
## <summary>Polaris container Policy Rules.</summary>

########################################
## <summary>
##	Creates types and rules for a basic
##	polaris container process domain.
## </summary>
## <param name="stem">
##<summary>
##Stem for the domain. Name is constructed as polaris_stem_container_t
##</summary>
## </param>
#
## template('polaris_container_domain_template',
gen_require(''
type svirt_sandbox_file_t;

type virt_lxc_var_run_t;
attribute sandbox_net_domain;
attribute svirt_sandbox_domain;
bool virt_sandbox_use_sys_admin;
bool virt_sandbox_use_mknod;
bool virt_sandbox_use_all_caps;
bool virt_sandbox_use_netlink;

')

type polaris_$1_container_t, svirt_sandbox_domain;
domain_type(polaris_$1_container_t)
domain_user_exemption_target(polaris_$1_container_t)
mls_rangetrans_target(polaris_$1_container_t)
mcs_constrained(polaris_$1_container_t)
role system_r types polaris_$1_container_t;

logging_send_syslog_msg(polaris_$1_container_t)

kernel_read_system_state(polaris_$1_container_t)
kernell_read_all_proc(polaris_$1_container_t)

virt_default_capabilities(polaris_$1_container_t)
typeattribute polaris_$1_container_t sandbox_net_domain;
dontaudit polaris_$1_container_t self:capability fsetid;
dontaudit polaris_$1_container_t self:capability2 block_suspend;
allow polaris_$1_container_t self:process { execstack execmem};
manage_chr_files_pattern(polaris_$1_container_t, svirt_sandbox_file_t, svirt_sandbox_file_t)
kernell_load_module(polaris_$1_container_t)

tunable_policy(`virt_sandbox_use_sys_admin',
    allow polaris_$1_container_t self:capability sys_admin;
')

tunable_policy(`virt_sandbox_use_mknod',
    allow polaris_$1_container_t self:capability mknod;
')

tunable_policy(`virt_sandbox_use_all_caps',
    allow polaris_$1_container_t self:capability all_capability_perms;
    allow polaris_$1_container_t self:capability2 all_capability2_perms;
')

tunable_policy(`virt_sandbox_use_netlink',
    allow polaris_$1_container_t self:netlink_socket create_socket_perms;
    allow polaris_$1_container_t self:netlink_tcpdiag_socket create_netlink_socket_perms;
    allow polaris_$1_container_t self:netlink_kobject_uevent_socket create_socket_perms;
',
logging_dontaudit_send_audit_msgs(polaris_$1_container_t)
allow polaris_$1_container_t virt_lxc_var_run_t:dir list_dir_perms;
allow polaris_$1_container_t virt_lxc_var_run_t:file read_file_perms;

kernel_read_irq_sysctls(polaris_$1_container_t)
kernle_read_messages(polaris_$1_container_t)

dev_read_sysfs(polaris_$1_container_t)
dev_read_mtrr(polaris_$1_container_t)
dev_read_rand(polaris_$1_container_t)
dev_read_urand(polaris_$1_container_t)

files_read_kernel_modules(polaris_$1_container_t)

# Do we actually need these?
fs_mount_cgroup(polaris_$1_container_t)
fs_manage_cgroup_dirs(polaris_$1_container_t)
fs_manage_cgroup_files(polaris_$1_container_t)
# Needed for docker
fs_unmount_xattr_fs(polaris_$1_container_t)

auth_use_nsswitch(polaris_$1_container_t)

optional_policy(`
rpm_read_db(polaris_$1_container_t)
`)

logging_send_syslog_msg(polaris_$1_container_t)

tunable_policy(`virt_sandbox_useAudit`,
   logging_send_audit_msgs(polaris_$1_container_t)
`)

userrdom_use_user_ptys(polaris_$1_container_t)

optional_policy(`
   # allow vman to kill lxc container process
   # on shutdown where vman destroys container-related
   # stuff after a timeout period
   polaris_vman_kill_process(polaris_$1_container_t)
`)

# copied from polariscommon.if. If the label is added in
# in permissive map, the below interface will make permissive
ifelse(permissive_domain(polaris_$1_container_t), polaris_$1_container_t,
   `polaris_permissive_domain_setup(polaris_$1_container_t),
   confined_domain(polaris_$1_container_t), polaris_$1_container_t, `~,
polaris_domain_maybe_unconfined(polaris_$1_container_t)

```

## <summary>
## Creates types and rules for a basic
## polaris KVM container process domain.
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_container_t
## </param>
#
# template('polaris_kvm_domain_template',
  gen_require(
    attribute virt_domain;
    type svirt_image_t;
  )
)

# for now, things are same as polaris_container_domain_template
polaris_container_domain_template($1)

typeattribute polaris_$1_container_t virt_domain;
# allow {map} of svirt_image_t needed by VWAAS similar to svirt
allow polaris_$1_container_t svirt_image_t:{ file blk_file } map;
```

```

## Read Sandbox Files

## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## </param>
#
# interface('polaris_sandbox_file_read',
  gen_require(
    type svirt_sandbox_file_t;
  )
  read_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  read_lnk_files_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
  list_dirs_pattern($1, svirt_sandbox_file_t, svirt_sandbox_file_t)
)```
## <summary>
##      Read Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sandbox_file_dir_list',`
   gen_require(`
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type svirt_sandbox_file_t;
   `)
   list_dirs_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t }, svirt_sandbox_file_t)
optional_policy(`
   gen_require(`
      type polaris_iox_alt_hdd_files_t;
   `)
   list_dirs_pattern($1, polaris_iox_alt_hdd_files_t , svirt_sandbox_file_t)
`)
`)

##################################################
## <summary>
##      Getattr of Sandbox Files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_sandbox_file_getattr',`
   gen_require(`
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type svirt_sandbox_file_t;
   `)
   getattr_files_pattern($1, { svirt_sandbox_file_t polaris_disk_bootflash_t polaris_disk_harddisk_t }, svirt_sandbox_file_t)
optional_policy(`
   gen_require(`
      type polaris_iox_alt_hdd_files_t;
   `)
   `)
getattr_files_pattern($1, polaris_iox_alt_hdd_files_t, svirt_sandbox_file_t)
)

### <summary>
### Normal restricted permission to execute utd (snort) container
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_utd_container,'
    allow $1 self:netlink_generic_socket client_stream_socket_perms;
')

### <summary>
### Allow domain transition
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_iox_container_domtrans',
    gen_require(
        type polaris_iox_container_t;
        type container_file_t;
    )
    domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
)

### <summary>
### Allow watch on container files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_iox_container_watch',
    gen_require(
        type tmpfs_t;
        type container_file_t;
    )
    allow $1 container_file_t:{ dir file lnk_file} watch;
    allow $1 tmpfs_t:{ dir file lnk_file} watch;
    )

########################################
## <summary>
##      Send messages to utdl container unix datagram sockets.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_utdl_container_dgram_send',
    gen_require(
        type polaris_utdl_container_t;
    )
    allow $1 polaris_utdl_container_t:unix_dgram_socket sendto;
    )

########################################
## <summary>
##      Allow unix stream socket connect
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_waas_stream_connect',
    gen_require(
        type polaris_waas_container_t;
    )
    allow $1 polaris_waas_container_t:unix_stream_socket connectto;
    )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.if
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
#
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#
/tmp/flashlock -- gen_context(system_u:object_r:polaris_flashlib_lock_t,s0)
/tmp/flashdev.log -- gen_context(system_u:object_r:polaris_flashlib_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.fc
No license file was found, but licenses were detected in source scan.

# Oct 2020, Xin Xiang
#
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#
# dma map devices
/dev/dma-mmap -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# /dev/dma_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dma_nw -c gen_context(system_u:object_r:polaris_dmammap_device_t,s0)

# dplr interrupt devices
/dev/dplr_intrpt -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# /dev/dplr_nw is introduced by Nightwatch switch module on ESG routing platform
/dev/dplr_nw -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

# e.g., /dev/msi/Slot8/Doppler0/Group0
/dev/msi/Slot[0-9]/Doppler[0-9]*/ -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)
/dev/msi/Slot[0-9]/Doppler[0-9]/.* -c gen_context(system_u:object_r:polaris_dplr_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
## <summary>Polaris ncd Policy Rules.</summary>

### <summary>
Make the specified domain able to manage tmp file created by
ncd.sh like /tmp/etc/ncd_work_dir
</summary>

### <param name="type">
Domain allowed access.
</param>

```
interface('polaris_ncd_tmp_manage',
    gen_require(
        type polaris_ncd_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    manage_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')
```

### <summary>
Make the specified domain able to read tmp file created by
ncd.sh like /tmp/ufs/crashinfo
</summary>

### <param name="type">
Domain allowed access.
</param>

```
interface('polaris_ncd_tmp_read',
    gen_require(
        type polaris_ncd_tmp_t;
    ')
    list_dirs_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
    read_lnk_files_pattern($1, polaris_ncd_tmp_t, polaris_ncd_tmp_t)
')
```

### <summary>
Make the specified domain able to read etc file created by
ncd.sh like /etc/conf/unifiedfs/mount_data
</summary>

### <param name="type">

# <summary>
# Domain allowed access.
# </summary>
#
# interface(`polaris_ncd_etc_read',
#    gen_require(
#      type polaris_ncd_etc_t;
#    )
#    read_files_pattern($1, polaris_ncd_etc_t, polaris_ncd_etc_t)
# )
#
#******************************************************************************
# <summary>
# Execute a domain transition to run ncd.
# </summary>
# <param name="domain">
# <summary>
# Domain allowed to transition.
# </summary>
# </param>
#
# interface(`polaris_ncd_domtrans',
#    gen_require(
#      type polaris_ncd_t, polaris_ncd_exec_t;
#    )
#    domtrans_pattern($1, polaris_ncd_exec_t, polaris_ncd_t)
# )
#
#******************************************************************************
# <summary>
# Execute a domain transition to run unifiedfs_helper.sh.
# </summary>
# <param name="domain">
# <summary>
# Domain allowed to transition.
# </summary>
# </param>
#
# interface(`polaris_ufs_helper_domtrans',
#    gen_require(
#      type polaris_ufs_helper_t, polaris_ufs_helper_exec_t;
#    )
#    domtrans_pattern($1, polaris_ufs_helper_exec_t, polaris_ufs_helper_t)
# )
### <summary>
### Run rpcinfo in a domain, grant proper network permissions.
### </summary>

### <param name="domain">
### Domain allowed to transition.
### </param>

```c
interface('polaris_ncd_rpcinfo_net',
corenet_tcp_bind_generic_node($1)
corenet_tcp_bind_all_rpc_ports($1)
corenet_tcp_connect_all_rpc_ports($1)
corenet_tcp_connect_unreserved_ports($1)
allow $1 self:tcp_socket { bind connect create getattr getopt setopt };

corenet_udp_bind_generic_node($1)
corenet_udp_bind_all_rpc_ports($1)
allow $1 self:udp_socket { bind create getattr getopt setopt };

corenct_tcp_connect_portmap_port($1)

ifdef('passport_platform',
# invoked rpcinfo which connects to port 2049 (nfs server)
# port is incorrectly labelled due to falling in range of TDL define
# of IOSd gold ripc service
polaris_ripc_iosd_gold_connect($1)
')

ifdef('starfleet_platform',
# invoked rpcinfo which connects to port 2049 (nfs server)
# port is incorrectly labelled due to falling in range of TDL define
# of IOSd gold ripc service
polaris_ripc_iosd_gold_connect($1)
')

ifdef('bigbang_platform',
# nfs server port 2049 is labelled as ripc-emd_ui_port_t based on TDL define
polaris_ripc_emd_ui_connect($1)
')

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.if
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#

policy_module(polariscppcdm, 1.0);

gen_require(' 
    type polaris_cpp_cdm_t;
')

polaris_btrace_data_manage(polaris_cpp_cdm_t)
polaris_crft_data_manage(polaris_cpp_cdm_t)
polaris_chasfs_manage(polaris_cpp_cdm_t)
polaris_tdlresolve_read(polaris_cpp_cdm_t)
polaris_tdlldb_list_dirs(polaris_cpp_cdm_t)
polaris_cpdl_read(polaris_cpp_cdm_t)
polaris_flashlib_read(polaris_cpp_cdm_t)

polaris_cpp_tmp_files_use(polaris_cpp_cdm_t)
# works with /dev/cpp_dev_info and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_cdm_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_cdm_t)

polaris_icc_broken_relocations(polaris_cpp_cdm_t)

allow polaris_cpp_cdm_t self:capability net_admin;

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_cdm_t)

polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cdm_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',
    polaris_dev_mem_use(polaris_cpp_cdm_t)
')

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library.
optional_policy(' 
    polaris_cpp_cavium_dma_map(polaris_cpp_cdm_t)
')
optional_policy(
  polaris_cbdma_dev_use(polaris_cpp_cdm_t)
')
polaris_cpld_dev_use(polaris_cpp_cdm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#
#
### <summary>Polaris bsm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
/obfl -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/obfl0 -l gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
/dev/cpld -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-ha -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-misc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-fp -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)
/dev/cpld-virtual-cc -c gen_context(system_u:object_r:polaris_cpld_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.fc
No license file was found, but licenses were detected in source scan.

dnl
dnl January 2021, Vaibhav Lade
dnl
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dnl
dnl VPCGW Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_map_set(`fp', `elastic', BPROC_UEMGR, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_UEMGR, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_UEMGR, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vpcgwmaps.m4
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris gsd_rp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.if
No license file was found, but licenses were detected in source scan.

#
# January 2018, Manohar Hungund
#
policy_module(polarisoctdplogrp, 1.0);

gen_require(
    type polaris_oct_dp_log_rp_t;
')

polaris_btrace_data_manage(polaris_oct_dp_log_rp_t)
polaris_chasfs Manage(polaris_oct_dp_log_rp_t)
polaris_tlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tllmdb_list_dirs(polaris_oct_dp_log_rp_t)
polaris_cpld_read(polaris_oct_dp_log_rp_t)
polaris_flashlib_read(polaris_oct_dp_log_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to access /dev/ttyDASH7)
term_open_unallocated_tty(ps(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.te

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

# June 2020, Manu Roy
#
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#
## <summary>Polaris iotswitch Policy Rules.</summary>
#
#
### <summary>Work (read, write, ioctl) with /dev/petra-fpga device
### </summary>
### <param name="domain">Domain allowed access.
### </param>
interface('polaris_iots_fpga_dev_use',"
gen_require('`
    type device_t;
    type polaris_iots_fpga_device_t;
')
write_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
read_chr_files_pattern($1, device_t, polaris_iots_fpga_device_t)
allow $1 polaris_iots_fpga_device_t:chr_file map;
')

########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/tm
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iots_tm_dev_use',
    gen_require('`
        type device_t;
        type polaris_iots_tm_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_tm_device_t)
    allow $1 polaris_iots_tm_device_t:chr_file map;
')

########################################################################
## <summary>
##      Allow access to semaphore with type polaris_cm_rp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cm_rp_sem_use',
    gen_require('`
        type polaris_cm_rp_t;
')
    allow $1 polaris_cm_rp_t:sem rw_sem_perms;
')

########################################################################
## <summary>
### Allow access to semaphore with type polaris_iots_mvDmaDrv_device_t
### <param name="domain">
###  Domain allowed access.
### </param>
#
# interface(`polaris_mvDmaDrv_dev_use',
  gen_require(
      type device_t;
      type polaris_iots_mvDmaDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvDmaDrv_device_t)
  allow $1 polaris_iots_mvDmaDrv_device_t:chr_file map;
)

########################################
### Allow access to semaphore with type polaris_iots_mvIntDrv_device_t
### <param name="domain">
###  Domain allowed access.
### </param>
#
# interface(`polaris_mvIntDrv_dev_use',
  gen_require(
      type device_t;
      type polaris_iots_mvIntDrv_device_t;
  )
  write_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
  read_chr_files_pattern($1, device_t, polaris_iots_mvIntDrv_device_t)
)

########################################
### Manage iots swipedrive files
### <param name="domain">
###  Domain allowed access.
### </param>
#
# interface(`polaris_swipedrive_file_manage',

gen_require('```
    type polaris_iots_swipedsrive_file_t;
  ```)
manage_files_pattern($1, polaris_iots_swipedsrive_file_t, polaris_iots_swipedsrive_file_t)
manage_link_files_pattern($1, polaris_iots_swipedsrive_file_t, polaris_iots_swipedsrive_file_t)
manage_dirs_pattern($1, polaris_iots_swipedsrive_file_t, polaris_iots_swipedsrive_file_t)
```)

########################################
## <summary>
## Get the attributes of an swipe drive filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>#
interface(`polaris_getattr_swipedsrive',`
  gen_require(
    type polaris_iots_swipedsrive_file_t;
  ```)
  allow $1 polaris_iots_swipedsrive_file_t:filesystem getattr;
```)

########################################
## <summary>
## Allow access to semaphore with type polaris_iots_led_device_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>#
interface(`polaris_led_dev_use',`
  gen_require(`
    type device_t;
    type polaris_iots_led_device_t;
  ```)
    write_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
    read_chr_files_pattern($1, device_t, polaris_iots_led_device_t)
```)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.if
No license file was found, but licenses were detected in source scan.

# December 2019, Victor Kamensky
#
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#

### <summary>Polaris fnf_agg Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.if

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

# March 2017, Victor Kamensky
#
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#

### <summary>Polaris TDLResolve Policy Rules.</summary>

# TDLresolve policy

```
# TDLresolve policy

# Open tdlresolve files

## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_tdlresolve_read',
  gen_require(`
  typens polaris_tdlresolve_t;
  `)
  read_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  read_link_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  list_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  allow $1 polaris_tdlresolve_t:file map;
  gen_require(`
```
type polaris_global_service_t;
')
    read_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
    allow $1 polaris_global_service_t:file map;
')

#######################################################################
## <summary>
## Manage tdlresolve files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_tdlresolve_manage',
  gen_require(''
    type polaris_tdlresolve_t;
  '))
    manage_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_lnk_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    manage_dirs_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
    allow $1 polaris_tdlresolve_t:file map;
  gen_require(''
    type polaris_global_service_t;
  '))
    manage_files_pattern($1, polaris_global_service_t, polaris_global_service_t)
    allow $1 polaris_global_service_t:file map;
')

#######################################################################
## <summary>
## Watch tdlresolve directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_tdlresolve_watch',
  gen_require(''
    type polaris_tdlresolve_t;
  '))
    allow $1 polaris_tdlresolve_t:dir watch;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.if
No license file was found, but licenses were detected in source scan.

#
# September 2018, Anubha Balani
#
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#

/tmp/maroon_stats -d gen_context(system_u:object_r:polaris_maroon_base_t,s0)
# zram devices
/dev/zram[0-9]* -b gen_context(system_u:object_r:polaris_zram_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
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#

policy_module(polarishtx, 1.0);

gen_require(
    type polaris_hxt_t;
)
polaris_chasfs_read(polaris_hxt_t)
polaris_cpld_read(polaris_hxt_t)
polaris_tdlresolve_read(polaris_hxt_t)
polaris_ripc_sman_ui_serv_connect(polaris_hxt_t)
logging_send_syslog_msg(polaris_hxt_t)

# LOOK AT ME uses shell and mkdir just to create /tmp/HTX-IOX directory
# should be single mkdir system call, in fact even this may not
# be needed since it is created by system-tempfiles
corecmd_exec_shell(polaris_hxt_t)
corecmd_exec_bin(polaris_hxt_t)
auth_use_nsswitch(polaris_hxt_t)
# call posix_sysconf that opens /sys/devices/system/cpu/online
dev_read_sysfs(polaris_htx_t)

# create threads
allow polaris_htx_t self:process setsched;
allow polaris_htx_t self:capability sys_nice;

optional_policy(
    polaris_qfp_dgram_send(polaris_htx_t)
  )

# vconfd_load_shared_schemas
polaris_confid_shared_schema_read(polaris_htx_t)

type polaris_htx_iox_tmp_t;
files_tmp_file(polaris_htx_iox_tmp_t)
polaris_htx_iox_tmp_manage(polaris_htx_t)

# htx logs files like /tmp/nwaas_log_sslproxy.log
type polaris_htx_tmp_t;
files_tmp_file(polaris_htx_tmp_t)
files_tmp_filetrans(polaris_htx_t, polaris_htx_tmp_t, file)
manage_files_pattern(polaris_htx_t, polaris_htx_tmp_t, polaris_htx_tmp_t)

# handle /dev/shm/tcpproxy_debug_shm
type polaris_htx_tmpfs_t;
files_tmpfs_file(polaris_htx_tmpfs_t)
fs_tmpfs_filetrans(polaris_htx_t, polaris_htx_tmpfs_t, file)
fs_getattr_tmpfs(polaris_htx_t)
gen_require(`
    type tmpfs_t;
  ')
manage_files_pattern(polaris_htx_t, tmpfs_t, polaris_htx_tmpfs_t)
allow polaris_htx_t polaris_htx_tmpfs_t:file map;

# work with /tmp/memif
optional_policy(
    polaris_qfp_memif_manage(polaris_htx_t)
  )

# sppi_memif
type polaris_sppi_memif_device_t;
dev_node(polaris_sppi_memif_device_t)
polaris_sppi_memif_dev_use(polaris_htx_t)

# packet_socket uinet_if_sppi_channel_init
allow polaris_htx_t self:packet_socket { create_socket_perms recv_msg send_msg};
allow polaris_hdx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_hdx_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris nginx Policy Rules.</summary>

##########################################################
## <summary>
##      Allow domain to be started by nginx with
##      transition into specific service domain.
## </summary>
## <param name="domain">
##      <summary>
##      Type to be used to run utility.
##      </summary>
## </param>
## <param name="entry_point">
##      <summary>
##      Type of the program to be used as an entry point to this domain.
##      </summary>
## </param>
interface(`polaris_nginx_exec_domain',`
  gen_require(`
type polaris_nginx_t;
')

domtrans_pattern(polaris_nginx_t, $2, $1)
')

##########################################################
## <summary>
##      Execute mcp_trace_filter script in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
interface('polaris_trace_filter_domtrans';
  gen_require(
    type polaris_trace_filter_t, polaris_trace_filter_exec_t;
  ')

domtrans_pattern($1, polaris_trace_filter_exec_t, polaris_trace_filter_t)
')

########################################################################
## <summary>
## Execute file transfer client in its own domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
# interface('polaris_file_transfer_client_domtrans';
# gen_require(
#   type polaris_file_transfer_client_t, polaris_file_transfer_client_exec_t;
# ')
#
domtrans_pattern($1, polaris_file_transfer_client_exec_t, polaris_file_transfer_client_t)
')

########################################################################
## Allow others to perform pipe operations on nginx files
## Domain allowed to perform the operation
#
# interface('polaris_nginx_manage_fifo_files';
# gen_require(
#   type polaris_nginx_t;
#   type $1;
# ')
#
# manage_fifo_files_pattern($1, polaris_nginx_t, polaris_nginx_t)
## <summary>
## Allow the specified domain to manage polaris.nginx_tmp_t files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris.nginx_tmp_manage',
    gen_require(
        type polaris.nginx_tmp_t;
    ')

manage_files_pattern($1, polaris.nginx_tmp_t, polaris.nginx_tmp_t)
files_tmp_filetrans($1, polaris.nginx_tmp_t, file, "ca.cert")
')

## <summary>
## Manage polaris.fts_client_tmp_t in /tmp/fts_client.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <summary>
interface('polaris.fts_client_tmp_manage',
    gen_require(
        type polaris.fts_client_tmp_t;
    ')

manage_files_pattern($1, polaris.fts_client_tmp_t, polaris.fts_client_tmp_t)
manage_dirs_pattern($1, polaris.fts_client_tmp_t, polaris.fts_client_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.if
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#
## <summary>Polaris cedgetanman Policy Rules.</summary>

# Read cedge tanman files and fifo_file. I.e /tmp/tan/tan_evt_fifo
# Domain allowed access.

# Interface('polaris_cedge_tanman_tmp_manage',
    gen_require('type polaris_cedge_tanman_tmp_t;
    )
    read_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    read_fifo_files_pattern($1, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
    )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.if
No license file was found, but licenses were detected in source scan.

# November 2017, Victor Kamensky
#
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#

# polarisgnmib file contexts place holder
/flash1/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/bootflash/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)
/mnt/sd3/user/gNOI_iosxe_.*  gen_context(system_u:object_r:polaris_gnmib_gnoi_images_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.fc
No license file was found, but licenses were detected in source scan.

# November 2020, Christine Hwang
#
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#
## <summary>Polaris bbu Policy Rules.</summary>

# <param name="domain">
## Domain allowed access.
# </param>
#
interface('polaris_bbu_dev_use',`
    gen_require('` 
        type device_t; ` 
        type polaris_bbu_device_t; 
    ') 
    write_chr_files_pattern($1, device_t, polaris_bbu_device_t) 
    read_chr_files_pattern($1, device_t, polaris_bbu_device_t) 
    allow $1 polaris_bbu_device_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#
## <summary>Polaris polarisrollbacktimer Policy Rules.</summary>

# <param name="domain">
## Domain allowed access.
# </param>
#
interface('polaris_rbtimer_bootflash_manage',`
    gen_require('` 
        type polaris_disk_bootflash_t; 
    ') 
    write_chr_files_pattern($1, polaris_disk_bootflash_t) 
    read_chr_files_pattern($1, polaris_disk_bootflash_t) 
    allow $1 polaris_disk_bootflash_t:chr_file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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# # All rights reserved
#
type polaris_rbtimer_bootflash_t;

')
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t)
manage_files_pattern($1, polaris_rbtimer_bootflash_t, polaris_rbtimer_bootflash_t)
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_rbtimer_bootflash_t, dir, ".rollback_timer")

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris keyman Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisoom Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.if
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/usr/binos/conf/install_engine.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t:s0)
/usr/binos/conf/install_assist.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t:s0)
/usr/binos/conf/install_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t:s0)
/usr/binos/conf/sw_pload_svc.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t:s0)
# The following labels are specific to hot patch a SMUs shared objects
# using .so files). For cold patch files, the patch is subset of a package
# (it has the same structure) and therefore regular labeling rules will
# be in effect.
#
# The SMU hot patch directory hierarchy should look as follows:
#
# # /RP.<ARCH>/<process>/patch(s)
# # /FP.<ARCH>/<process>/patch(s)
# # /CC.<ARCH>/<process>/patch(s)
# #
# /RP[^/]*[^/]*(/.*)? gen_context(system_u:object_r:lib_t,s0)
# /FP[^/]*[^/]*(/.*)? gen_context(system_u:object_r:lib_t,s0)
# /CP[^/]*[^/]*(/.*)? gen_context(system_u:object_r:lib_t,s0)
# # bundlee image/subpkg labeling
# /packages.conf -- gen_context(system_u:object_r:polaris_packages_conf_t,s0)
# /pkginfo -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
# /(*).pkg -- gen_context(system_u:object_r:polaris_sw_data_t,s0)
# #/tmp/pkg_cs_debug(/.*)? gen_context(system_u:object_r:polaris_pkg_cs_debug_t,s0)
#
# Found in path(s):
# * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.fc
# No license file was found, but licenses were detected in source scan.
#
# # March 2017, Victor Kamensky
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#
# policy_module(polarisepcwsliaison, 1.0);
#
# gen_require(
#     type polaris_epee_ws_liaison_t;
# )
#
polaris_btrace_data_manage(polaris_epee_ws_liaison_t)
polaris_crft_data_manage(polaris_epee_ws_liaison_t)
polaris_chasfs_manage(polaris_epee_ws_liaison_t)
polaris_tdlresolve_read(polaris_epee_ws_liaison_t)
polaris_tdlldb_list_dirs(polaris_epee_ws_liaison_t)
polaris_cpld_read(polaris_epee_ws_liaison_t)
polaris_flashlib_read(polaris_epee_ws_liaison_t)

polaris_ripc_sman_ui_serv_connect(polaris_epee_ws_liaison_t)
allow polaris_epc_ws_liaison_t self:capability { dac_override };

# tshark invoked by epc_ws_liaison needs to map /etc/passwd file.
auth_map_passwd(polaris_epc_ws_liaison_t)

# access to execute /sbin/tshark
corecmd_exec_bin(polaris_epc_ws_liaison_t)

# dumpcap needs access to net dir in sysfs
dev_read_sysfs(polaris_epc_ws_liaison_t)

# comm="dumpcap" kmod="net-pf-16,proto-12"
kernel_dontaudit_request_load_module(polaris_epc_ws_liaison_t)

# write pcap files to /bootflash
polaris_bootflash_manage(polaris_epc_ws_liaison_t)

# epc_ws_liaison and ngwc-fed pipe interaction
polaris_fed_shm_file_read(polaris_epc_ws_liaison_t)

# for pluggable FS, allow epc liaison to access files on them.
polaris_removable_manage(polaris_epc_ws_liaison_t)

# tshark and dumpcap runtime requirements
allow polaris_epc_ws_liaison_t self:capability { net_raw setgid setuid };
allow polaris_epc_ws_liaison_t self:netlink_netfilter_socket create;
allow polaris_epc_ws_liaison_t self:netlink_route_socket { bind create getattr nlmsg_read };
allow polaris_epc_ws_liaison_t self:packet_socket { bind create getopt ioctl map setopt };
allow polaris_epc_ws_liaison_t self:process setcap;
allow polaris_epc_ws_liaison_t self:unix_dgram_socket { create ioctl };
allow polaris_epc_ws_liaison_t self:udp_socket { create ioctl };

# /tmp/lsn.log and /tmp/epc_ws (WS_TMP_FOLDER)
type polaris_epc_ws_liaison_tmp_t;
files_tmp_file(polaris_epc_ws_liaison_tmp_t)
files_tmp_filetrans(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, { file dir })
manage_dirs_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
manage_fifo_files_pattern(polaris_epc_ws_liaison_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)

# CLI: show platform software wireshark show
polaris_utility_domain_template(wireshark_show)
polaris_bexecute_domain(polaris_wireshark_show_t, polaris_wireshark_show_exec_t)
polaris_chasfs_manage(polaris_wireshark_show_t)
corecmd_exec_bin(polaris_wireshark_show_t)

# map /etc/passwd
auth_map_passwd(polaris_wireshark_show_t)

# open, read, get attr pcap files
polaris_bootflash_read(polaris_wireshark_show_t)

# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_wireshark_show_t)

corecmd_exec_shell(polaris_wireshark_show_t)

# sys file /sys/devices/system/cpu/online
dev_read_sysfs(polaris_wireshark_show_t)

# tshark and dump cap runtime requirements
allow polaris_wireshark_show_t self: capability { setgid setuid net_admin }; allow polaris_wireshark_show_t self: netlink_netfilter_socket create; allow polaris_wireshark_show_t self: netlink_route_socket { bind create get attr nlmsg_read }; allow polaris_wireshark_show_t self: process setcap; allow polaris_wireshark_show_t self: udp_socket { create ioctl }; allow polaris_wireshark_show_t self: unix_dgram_socket { create ioctl }; # dump cap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dump cap" kmod="net-pf-16-proto-12"
kernel_request_load_module(polaris_wireshark_show_t)

# /tmp/*.pcapng
type polaris_wireshark_show_tmp_t;
files_tmp_file(polaris_wireshark_show_tmp_t)
files_tmp_filetrans(polaris_wireshark_show_t, polaris_wireshark_show_tmp_t, file)
polaris_wireshark_show_tmp_manage(polaris_wireshark_show_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.te
No license file was found, but licenses were detected in source scan.

#
# June 2020, Manu Roy
#
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#

policy_module(polarisiotswitch, 1.0);
# petra fpga device (/dev/petra-fpga)
type polaris_iots_fpga_device_t;
dev_node(polaris_iots_fpga_device_t)

# petra DMA ASIC driver (/dev/mvDmaDrv)
type polaris_iots_mvDmaDrv_device_t;
dev_node(polaris_iots_mvDmaDrv_device_t)

# petra Interrupt Asic driver (/dev/mvIntDrv)
type polaris_iots_mvIntDrv_device_t;
dev_node(polaris_iots_mvIntDrv_device_t)

# petra tm device (/dev/tm)
type polaris_iots_tm_device_t;
dev_node(polaris_iots_tm_device_t)

# petra tm device (/dev/mmcblk1p1)
type polaris_iots_swipedrive_device_t;
dev_node(polaris_iots_swipedrive_device_t)

type polaris_iots_swipedrive_file_t;
files_type(polaris_iots_swipedrive_file_t)
dev_associate(polaris_iots_swipedrive_file_t)

# LED device (/dev/spidev0.0)
type polaris_iots_led_device_t;
dev_node(polaris_iots_led_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris psd Policy Rules.</summary>

############################################################
###<summary>
### Read polaris_restconf_t files, effectively files
### under /tmp/restconf
### <summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_read',
    gen_require('  
        type polaris_restconf_t;
    ')
    read_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    read_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    list_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
##      Manage polaris_restconf_t files, effectively files
## under /tmp/restconf
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_restconf_manage',
    gen_require('  
        type polaris_restconf_t;
    ')
    manage_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_lnk_files_pattern($1, polaris_restconf_t, polaris_restconf_t)
    manage_dirs_pattern($1, polaris_restconf_t, polaris_restconf_t)
')

########################################
## <summary>
##      Manage polaris_ncshhd_keys_t files, effectively files
## under /tmp/.ncshhd_authorized_keys
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ncshhd_keys_manage',
    gen_require('  
        type polaris_ncshhd_keys_t;
    ')
    manage_files_pattern($1, polaris_ncshhd_keys_t, polaris_ncshhd_keys_t)
    manage_lnk_files_pattern($1, polaris_ncshhd_keys_t, polaris_ncshhd_keys_t)
    manage_dirs_pattern($1, polaris_ncshhd_keys_t, polaris_ncshhd_keys_t)
')
type polaris_ncsshd_keys_t;

')
manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_link_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
')

#########################################################################
## <summary>
##     Read polaris_psd_tmp_t files, effectively access
##     /tmp/dmi.ds_config created by psd and read by confd startup
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
#
interface('polaris_psd_tmp_read',
    gen_require(
        type polaris_psd_tmp_t;
    )
    read_files_pattern($1, polaris_psd_tmp_t, polaris_psd_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris smd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define(`polaris_process_aux_full',``
polaris_process_domain_template($1)
``"
)
define(`polaris_process_aux',``
ifelse(process_type_map($1), `', `polaris_process_aux_full($1'))
process_type_map_set($1, 1)
``"
)
define(`polaris_process',``
polaris_process_aux(process_stem($1))
``"
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_te.m4
No license file was found, but licenses were detected in source scan.

# # April 2017, Victor Kamensky
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
# # All rights reserved
#
policy_module(polaris_dmi_nccshdmgmt, 1.0);

gen_require(`
    type polaris_dmi_nccshd_mgmt_t;
``"
)
polaris_btrace_data_manage(polaris_dmi_nccshd_mgmt_t)
polaris_chasfs_manage(polaris_dmi_nccshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_nccshd_mgmt_t)
polaris_tdlldb_list_dirs(polaris_dmi_nccshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_nccshd_mgmt_t)
corenet_tcp_bind_generic_node(polaris_dmi_nccshd_mgmt_t)
allow polaris_dmi_nccshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }

allow polaris_dmi_nccshd_mgmt_t self:udp_socket { getattr create connect read write }

allow polaris_dmi_nccshd_mgmt_t self:cap_users { sys_admin net_bind_service }

type polaris_dmi_nccshd_mgmt_var_run_t;
files_pid_file(polaris_dmi_nccshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_nccshd_mgmt_t, polaris_dmi_nccshd_mgmt_var_run_t, polaris_dmi_nccshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_run_t, { file dir })

# access /var/log/lastlog, /var/log/btmp
type polaris_dmi_ncsshd_mgmt_var_log_t;
logging_log_file(polaris_dmi_ncsshd_mgmt_var_log_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, polaris_dmi_ncsshd_mgmt_var_log_t)
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "lastlog")
logging_log_filetrans(polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_var_log_t, file, "btmp")
polaris_dmi_ncsshd_fwd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_polaris_dmi_ncsshd_mgmt_port(polaris_dmi_ncsshd_mgmt_t)
# ncsshd allows user-defined port with: netconf-yang ssh port <port_no>
corenet_tcp_bind_all_ports(polaris_dmi_ncsshd_mgmt_t)

auth_use_nsswitch(polaris_dmi_ncsshd_mgmt_t)
# assign fllowing capabilities needed by sshd
allow polaris_dmi_ncsshd_mgmt_t self:capability {net_admin setgid sys_resource setuid sys_chroot kill};
allow polaris_dmi_ncsshd_mgmt_t self:process setrlimit;

# ncsshd requests pseudo terminal when netconf session is set up without
# explicitly specifying the subsystem name, such as netconf.
allow polaris_dmi_ncsshd_mgmt_t self:capability { chown fowner fsetid };
term_setattr_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_getattr_pty_fs(polaris_dmi_ncsshd_mgmt_t)
term_use_generic_ptys(polaris_dmi_ncsshd_mgmt_t)
term_use_ptmx(polaris_dmi_ncsshd_mgmt_t)

#enable to read cpld file "/sys/devices/platform/cpld/board_vtype"
polaris_cpld_read(polaris_dmi_ncsshd_mgmt_t)
# for sshd needs access network interface resource
allow polaris_dmi_ncsshd_mgmt_t self:netlink_route_socket r_netlink_socket_perms;

# calls socketat server_listenn at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nsfs_read(polaris_dmi_ncsshd_mgmt_t)
polaris_lfts_dev_use(polaris_dmi_ncsshd_mgmt_t)
corecmd_exec_bin(polaris_dmi_ncsshd_mgmt_t)

logging_send_syslog_msg(polaris_dmi_ncsshd_mgmt_t)
# TODO : revisit below statement when addressing initrc_exec_t denial
polaris_rmonbifo_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow access to /tmp/sw/cfg and /tmp/sw/boot
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

polaris_dmi_dmiauthd_dgram_send(polaris_dmi_ncsshd_mgmt_t)

corenct_tcp_connect_polaris_netconf_interceptor_port(polaris_dmi_ncsshd_mgmt_t);
# This fixes runin.sh related denials. Refer to auth.c file which invokes bshell.
polaris_bexecute_domtrans(polaris_dmi_ncsshd_mgmt_t);

# This fixes authorized keys access related denials.
polaris_ncsshd_authorized_keys_read(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to interceptor files.
polaris_interceptor_manage(polaris_dmi_ncsshd_mgmt_t);

# This fixes denials related to netconf_callhome executable

gener REQUIRE(
    type polaris_confd_t;
)
allow polaris_dmi_ncsshd_mgmt_t polaris_confd_t:tcp_socket { getattr getopt setopt };

# This fixes denials related to route, scp, chvrf command executables
# { read open getattr } operations are allowed on route command
# { search open } operations are allowed on scp command
# { read open execute execute_no_trans } operations are allowed on chvrf command
kernel_read_network_state(polaris_dmi_ncsshd_mgmt_t)

optional_policy(
    # allows access to /tmp/xml/Intf dir and files
    polaris_cedge_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_cedge_xml_tmp_manage(polaris_dmi_ncsshd_mgmt_t)
')
# This fixes denials related to ifconfig executable
# { execute read open execute_no_trans map getattr } operations are allowed
sysnet_domtrans_ifconfig(polaris_dmi_ncsshd_mgmt_t)

# This fixes access denials related to confd checking ncsshd_mgmt proc info
# /proc/<ncsshd pid>/
read_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)
read_lnk_files_pattern(polaris_confd_t, polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_t)

# allows access for admin-tech generation from vManage
polaris_admin_tech_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_bootflash_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_cfg_data_t
polaris_cfg_data_manage(polaris_dmi_ncsshd_mgmt_t)

# allow access to polaris_boot_tmp_t
polaris_boot_tmp_read(polaris_dmi_ncsshd_mgmt_t)

# allow to watch /var/run/netns and list dir
polaris_watch_netns(polaris_dmi_ncsshd_mgmt_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarispman Policy Rules.</summary>

# Make the specified program domain accessible
from the pman.
</summary>

## <param name="domain">
## The type of the process to transition to.
</param>

## <param name="entrypoint">
## The type of the file used as an entrypoint to this domain.
</param>

interface(`polaris_pman_entry`,
    gen_require(`
        type polaris_pman_t;
        type polaris_gdb_t;
    `)
    domtrans_pattern(polaris_pman_t, $2, $1)
domtrans_pattern(polaris_gdb_t, $2, $1)
    allow polaris_gdb_t $1:process { ptrace signal sigstop };
`)

## <summary>
## Execute a domain transition to run pman.

```c
interface('polaris_pman_domtrans',
    gen_require(
        type polaris_pman_t, polaris_pman_exec_t;
    )
)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
```

## Read pman temporary files and directories in /tmp.

```c
interface('polaris_pman_read_tmp_files',
    gen_require(
        type polaris_pman_tmp_t;
    )
)

read_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
```

## Manage pman temporary files and directories in /tmp.

```c
interface('polaris_pman_manage_tmp_files',
    gen_require(
        type polaris_pman_tmp_t;
    )
)
manage_files_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_dirs_pattern($1, polaris_pman_tmp_t, polaris_pman_tmp_t)
)

#######################################
## <summary>
##      Create an object in the polaris_pman_tmp directories.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <param name="object">
##      The object class of the object being created.
## </param>
## <param name="name" optional="true">
##      The name of the object being created.
## </param>
#
# interface(‘polaris_pman_tmp_filetrans’,
gen_require(’
type polaris_pman_tmp_t;
’)
files_tmp_filetrans($1, polaris_pman_tmp_t, $2, $3)
)

#######################################
## <summary>
##      Check existence (getattr) of pman btrace file (i.e polaris_pman_bt_t)
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
# interface(‘polaris_pman_bt_getattr’,
gen_require(’
type polaris_pman_bt_t;
’)

type polaris_btrace_base_t;
 )
getattr_files_pattern($1, polaris_btrace_base_t, polaris_pman_bt_t)
 )

#########################################################################
## <summary>
## Read and write to pmanlite fifo file, used as
## stdout/stderr.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(‘polaris_use_pman_fifo’,
   gen_require(‘
      type polaris_pman_t;
   ’)
   allow $1 polaris_pman_t:fifo_file { rw_fifo_file_perms };
   ’)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.if
No license file was found, but licenses were detected in source scan.

# # August 2017, Shawn Lu
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polariswncmgrd, 1.0);

gen_require(‘
      type polaris_wncmgrd_t;
   ’)

polaris_btrace_data_manage(polaris_wncmgrd_t)
polaris_chasfs_manage(polaris_wncmgrd_t)
polaris_tdlresolve_read(polaris_wncmgrd_t)
polaris_tdlldb_list_dirs(polaris_wncmgrd_t)
polaris_cpld_read(polaris_wncmgrd_t)
polaris_lua_read(polaris_wncmgrd_t)
polaris_flashlib_read(polaris_wncmgrd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncmgrd_t)

polaris_db_tldlb_dir_use(polaris_wncmgrd_t)

#allow setrlimit
allow polaris_wncmgrd_t self:process setrlimit;
allow polaris_wncmgrd_t self:capability sys_resource;
allow polaris_wncmgrd_t self:capability dac_overide;

allow polaris_wncmgrd_t self:tcp_socket { shutdown }

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt }
corenent_udp_bind_generic_node(polaris_wncmgrd_t)

#allow wncmgrd module to do ioctl,open,read,write operations on char file
polaris_lfts_dev_use(polaris_wncmgrd_t)

# it use tcp port 9090 and 9091(polaris_wnc_mgd_port)
corenent_tcp_bind_polaris_wnc_mgd_port(polaris_wncmgrd_t)

# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

# wncmgrd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/0/0/rp1/wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init -> ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncmgrd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)

polaris_tldlbpersist_setup(polaris_wncmgrd_t)

polaris_tmp_tldlb_persist_setup(polaris_wncmgrd_t)

logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corenent_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corenent_udp_bind_polaris_capwap_data_port(polaris_wncmgrd_t)

# wncmgrd accessing NA certificate to push to AP
type polaris_icap_cert_t;
polaris_pfile_type(polaris_icap_cert_t)

# wncmgrd receives the certificate file from IOSd via IPC
#and writes to /bootflash for ICap feature
#and hence requires access.
gen_require('
    type polaris_icap_cert_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_icap_cert_t, file, "NACert.pem")
allow polaris_wncmgrd_t polaris_icap_cert_t:file { write create read open getattr unlink };

#allow tcp connection from http port for awips file download
#from DNAC
corenet_tcp_connect_http_port(polaris_wncmgrd_t)

#allow read/write/mmap access to awips file
gen_require('
    type polaris_awips_signature_file_t;
')
filetrans_pattern(polaris_wncmgrd_t, polaris_disk_bootflash_t, polaris_awips_signature_file_t, file, "awips.json")
allow polaris_wncmgrd_t polaris_awips_signature_file_t:file { map write create read open getattr unlink };

#allow read access to resolv.conf
sysnet_read_config(polaris_wncmgrd_t)

#ewlc_capwap_dgram_srvr_create_raw_send_socket () creates a socket
#creates  sll.sll_family = AF_PACKET;
#sll.sll_ifindex = dgram_io_desc->lfts_ifindex;
#sll.sll_protocol = htons(ETH_P_ALL);

allow polaris_wncmgrd_t self:packet_socket { create_socket_perms setopt };
allow polaris_wncmgrd_t self:rawip_socket { create_socket_perms setopt ioctl };

allow polaris_wncmgrd_t self:capability net_raw;
corenet_raw_bind_generic_node(polaris_wncmgrd_t)

gen_require('
    type port_t;
')
allow polaris_wncmgrd_t port_t:rawip_socket name_bind;

# allow tmp symlinks
fs_read_tmpfs_symlinks(polaris_wncmgrd_t)
# allow tmp file read
polaris_install_tmp_read(polaris_wncmgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.te
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#
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#

## <summary>Polaris NVRAM Policy Rules.</summary>

##############################################################################
# NVRAM policy
##############################################################################

########################################################################
## <summary>
##      Manage nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_nvram_manage',`
  gen_require(`
    type polaris_nvram_file_t;
    type device_t;
  ')
  manage_blk_files_pattern($1, device_t, polaris_nvram_file_t)
  manage_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
  manage_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

########################################################################
## <summary>
##      Read nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_nvram_read',`
  gen_require(`
type polaris_nvram_file_t;
    type device_t;
')

    read_blk_files_pattern($1, device_t, polaris_nvram_file_t)
    read_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    read_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

#######################################
## <summary>
##      getattr for nvram files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface('polaris_nvram_getattr',
gen_require('type polaris_nvram_file_t;
    type device_t;
')

    getattr_blk_files_pattern($1, device_t, polaris_nvram_file_t)
    getattr_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
    getattr_lnk_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.if
No license file was found, but licenses were detected in source scan.

# # July 2017, Victor Kamensky
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#
/usr/cpp/bin/cpp_stats_svr -- gen_context(system_u:object_r:polaris_cpp_stats_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarisoom, 1.0);

polaris_process_domain_template(oom)

corecmd_exec_bin(polaris_oom_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_oom_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_oom_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_oom_t)

allow polaris_oom_t self:capability sys_resource;
allow polaris_oom_t self:process setpgid;

polaris_btrace_data_manage(polaris_oom_t)
polaris_chasfs_manage(polaris_oom_t)
polaris_cpld_read(polaris_oom_t)
polaris_boot_tmp_read(polaris_oom_t)
polaris_read_debug_conf(polaris_oom_t)
polaris_disk_crashinfo_getattr(polaris_oom_t)
polaris_rmonbifo_tmp_read(polaris_oom_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.te
No license file was found, but licenses were detected in source scan.

# /mnt/sd1 edison and nyquist
/mnt/sd1(/.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/mnt/sd1/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd1/system-report_.*\.tar\.gz gen_context(system_u:object_r:polaris_system_report_t,s0)
# /mnt/sd3 edison and nyquist
/mnt/sd3(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/mnt/sd3/user/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/traceLogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/mnt/sd3/user/.ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/.ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/mnt/sd3/user/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/mnt/sd3/user/debug.conf -- gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/mnt/sd3/user/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)
/mnt/sd3/user/.dbpersist(/.*)? gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
/mnt/sd3/user/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/mnt/sd3/user/kernel/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/mnt/sd3/user/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)

# /mnt/sd4 nyquist
/mnt/sd4(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd5 edison and nyquist
/mnt/sd5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

ifdef(`edison_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd8
/mnt/sd8(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /mnt/sd9
/mnt/sd9(/.*)? gen_context(system_u:object_r:polaris_disk_recovery_t,s0)
')

ifdef(`nyquist_platform',`
# /mnt/sd6
/mnt/sd6(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /mnt/sd7
/mnt/sd7(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
# unmount script used ny Nyquist platform
/bin/cat9k_ssd_unmount.sh gen_context(system_u:object_r:polaris_ssd_unmount_exec_t,s0)
')
ifdef(`quake_platform',`
  # /mnt/sd6
  /mnt/sd6(/.*)?
  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

  # /mnt/sd7
  /mnt/sd7(/.*)?
  gen_context(system_u:object_r:polaris_disk_ucode_t,s0)
  ')

  # /crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
  /crashinfo     gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
  # /flash is symbolic link to /mnt/sd3/user
  /flash         gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
  # /lic0 is symbolic link to /mnt/sd4
  /lic0          gen_context(system_u:object_r:polaris_disk_license_t,s0)
  # /lic1 is symbolic link to /mnt/sd5
  /lic1          gen_context(system_u:object_r:polaris_disk_license_t,s0)
  # /ngwc_config/nvram is symbolic link to /mnt/sd3/user
  /ngwc_config/nvram  gen_context(system_u:object_r:polaris_nvram_file_t,s0)

  # /flash1 macallan
  /flash1(/.*)?
  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
  /flash1/user/core(/.*)?
  gen_context(system_u:object_r:polaris_core_file_t,s0)
  /flash1/user/tracelogs(/.*)?
  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
  /flash1/user/.ssh(/.*)?
  gen_context(system_u:object_r:ssh_home_t,s0)
  /flash1/user/.ssh/ssh_host.*_key\_pub
  gen_context(system_u:object_r:sshd_key_t,s0)
  /flash1/user/.ssh/ssh_host.*_key
  gen_context(system_u:object_r:sshd_key_t,s0)
  /flash1/user/nvram_config --
  gen_context(system_u:object_r:polaris_nvram_file_t,s0)
  /flash1/user/debug.conf --
  gen_context(system_u:object_r:polaris_debug_conf_t,s0)
  /flash1/user/packages.conf
  gen_context(system_u:object_r:polaris_packages_conf_t,s0)
  /flash1/user/kernel/core(/.*)?
  gen_context(system_u:object_r:polaris_core_file_t,s0)
  /flash1/user/.rollback_timer(/.*)?
  gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
  /flash1/user/.installer(/.*)?
  gen_context(system_u:object_r:polaris_disk_install_t,s0)
  /flash1/user/.dbpersist(/.*)?
  gen_context(system_u:object_r:polaris_disk_dbm_t,s0)
  /flash1/user/sys_report(/.*)?
  gen_context(system_u:object_r:polaris_chasync_files_t,s0)
  /flash1/TEMPLATE(/.*)?
  gen_context(system_u:object_r:polaris_chasync_files_t,s0)

  # /flash2 macallan 9500h
  /flash2(/.*)?
  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
  /flash2/CRASH(/.*)?
  gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
  /flash2/tracelogs(/.*)?
  gen_context(system_u:object_r:polaris_btrace_data_t,s0)

  # /flash3 macallan
  /flash3(/.*)?
  gen_context(system_u:object_r:polaris_obfl_data_t,s0)

  # /flash4 macallan
  /flash4(/.*)?
  gen_context(system_u:object_r:polaris_disk_license_t,s0)
# /flash5 macallan
# gen_context(system_u:object_r:polaris_disk_license_t,s0)
/thin5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
# gen_context(system_u:object_r:polaris_disk_ude_t,s0)
/thin6(/.*)? gen_context(system_u:object_r:polaris_disk_ude_t,s0)

# /flash7 macallan, silent roll
# gen_context(system_u:object_r:polaris_disk_ude_t,s0)
/thin7(/.*)? gen_context(system_u:object_r:polaris_disk_ude_t,s0)

# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_ude_t,s0)

# macallan /ngmod_config/nvram link will be labeled by systemd-tmpfiles
/ngmod_config gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/ngmod_config/nvram gen_context(system_u:object_r:polaris_nvram_file_t,s0)

# remap_mem0 device
/dev/remap_mem0 -c gen_context(system_u:object_r:polaris_remap_mem_device_t,s0)

# chdrvmmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrvmmap -c gen_context(system_u:object_r:polaris_chdrvmmap_device_t,s0)

# gettysburg_dev1 device
/dev/gettysburg_dev[0-9]* -c gen_context(system_u:object_r:polaris_gettysburg_fpga_device_t,s0)

# types that might be packages label by other policy
ifdef(`nyquist_platform',
/usr/binos/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
/usr/binos/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
)
ifdef(`passport_platform',
/usr/binos/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
/usr/binos/bin/xcvcx_test -- gen_context(system_u:object_r:polaris_xcvcx_test_exec_t,s0)
/usr/binos/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
/usr/binos/bin/cm -- gen_context(system_u:object_r:polaris_cm_exec_t,s0)
/usr/binos/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
/usr/binos/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
/usr/binos/bin/swift_sampled -- gen_context(system_u:object_r:polaris_faked_exec_t,s0)
)

# PLEASE LOOK AT ME: why this file in /etc/init.d?
/etc/rc0.d/init.d/cat9k_fpgahelper_funcs.sh -- gen_context(system_u:object_r:bin_t,s0)
/etc/rc\d/init.d/cat9k_kr_helper.sh -- gen_context(system_u:object_r:bin_t,s0)

# symbolic links in /platform-specific directory
/platform-specific/gryphon -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/gryphon_lite -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/farscape/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/borg/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/scorpion/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/imperial/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/jura/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake1/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/quake2/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)

# /objstore/.swtam for hybrid TAM access
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

/platform-specific/bigbang/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/nyquist/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/passport/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/starfleet/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/intrepid/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/martian/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/farscape/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/borg/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/scorpion/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/imperial/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/jura/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake1/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)
/platform-specific/quake2/etc/selinux(/[^/]*?)/contexts(/.*)? gen_context(system_u:object_r:default_context_t,s0)

/platform-specific/bigbang/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/nyquist/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/passport/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/starfleet/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/intrepid/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/martian/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/farscape/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/borg/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/scorpion/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/imperial/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/jura/etc/hosts[^/]* -- gen_context(system_u:object_r:net_conf_t,s0)

/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/verify_packages.sh -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/verify_packages.sh  -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/verify_packages.sh  -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/verify_packages.sh  -- gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/nyquist/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/passport/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/starfleet/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/intrepid/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/martian/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/farscape/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/borg/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/scorpion/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/imperial/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/platform-specific/jura/etc/udev/rules.d(/.*)?   gen_context(system_u:object_r:udev_rules_t,s0)
/dev/shm/sem.i2c_sem000   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem001   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem002   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem003   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem004   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem005   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem006   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.i2c_sem007   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)
/dev/shm/sem.io_expander_semaphore   gen_context(system_u:object_r:polaris_quake_i2c_t,s0)

# on pangea/bigbang platforms /dev/NVRAM block device is accessed
# by flashlib in iosd. It stores rommon vars
ifdef('bigbang_platform',
    /dev/NVRAM -b     gen_context(system_u:object_r:polaris_flashlib_device_t)
    # /mnt/sd6
    /mnt/sd6(/.*)?      gen_context(system_u:object_r:polaris_obfl_data_t,s0)
')

/vol/usb1(/.*)?      gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/mnt/vbd[a-j]2(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/tmp/fpga_upgrade    gen_context(system_u:object_r:polaris_fpga_upgrade_tmp_t,s0)

#/ucode0 9300 silent roll
/ucode0(/.*)?         gen_context(system_u:object_r:polaris_disk_ucode0_t,s0)

#/dev/cisco/fpgaioem device, Generic Memory map driver for mapping FPGA IO memory to userspace
/dev/cisco/fpgaioem -c gen_context(system_u:object_r:polaris_fpga_iomem_mmapfpga_device_t,s0)

# nplusm-power file is located in /bootflash and needs to be accessed by cman-rp/IOSd
/flash1/user/nplusm-power gen_context(system_u:object_r:polaris_nplusm_power_file_t,s0)
Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 2007

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
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#
# June 2020, Cuiyan Ma
#
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#

/usr/bin/os/conf/issu_comp_check.sh -- gen_context(system_u:object_r:polaris_issu_comp_check_exec_t,s0)
/tmp/boottime_comp_check_tree_other_rp -d gen_context(system_u:object_r:polaris_issu_comp_check_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.fc
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# March 2017, Victor Kamensky
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#

### <summary>Polaris repm Policy Rules.</summary>

#<summary>
# Manage /tmp/replications files.
#</summary>
#<param name="domain">
# Domain allowed access.
#</param>
#
interface(`polaris_repm_tmp_manage',
    gen_require(`
        type polaris_repm_tmp_t;
    ')
    manage_files_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
    manage_dirs_pattern($1, polaris_repm_tmp_t, polaris_repm_tmp_t)
')

#<summary>
Manage /dev/shm/mq-repm_peer_mq/ files.

<summary>
<param name="domain">
Domain allowed access.
</param>

interface('polaris_repm_peer_mqipc_manage',
gen_require(''
    type polaris_repm_peer_mqipc_t;
')
manage_files_pattern($1, polaris_repm_peer_mqipc_t, polaris_repm_peer_mqipc_t)
allow $1 polaris_repm_peer_mqipc_t:file map;
polaris_mqipc_create_name_dir($1, polaris_repm_peer_mqipc_t, repm_peer_mq)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.if
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dnl

dnl April 2018, Victor Kamensky

dnl

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dnl
define('mqipc_interface_map', `defn(format(``mqipc_interface_map[%s]'', `$1'))')
define('mqipc_interface_map_set', `define(format(``mqipc_interface_map[%s]'', `$1'), `$2')')

define('polaris_mqipc_service_server_many',
    `ifelse($3, `',
polaris_mqipc_create_name(dollarsone, $1, $2),
polaris_mqipc_create_name(dollarsone, $1, $2-b$3)
    `ifelse($3, 0, `polaris_mqipc_create_name(dollarsone, $1, $2)', `polaris_mqipc_service_server_many($1, $2, eval($3 - 1)))'))')

define('polaris_mqipc_service_server_aux_full', `dnl
                    #Create $2 mqipc chanell.
                    #<summary>
                    #<param name="domain">
                    #<summary>
                    #Domain allowed access.
                    #</summary>
                    #</param>

"Open Source Used In Cisco Identity Services Engine 3.2  20072"
interface(`polaris_mqipc_$1_create_name'`,
  gen_require(
    type $2;
    ')
  $3
'))

########################################
## <summary>
##	Use $2 mqipc chanell.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
## <infoflow type="none"/>
#
interface(`polaris_mqipc_$1_use',
  gen_require(
    type $2;
    ')
  polaris_mqipc_use(dollarsone, $2)
')

.define(`polaris_mqipc_service_server_aux',
  ifelse(mqipc_interface_map($1), `', `polaris_mqipc_service_server_aux_full($1, $2, $3)'))
mqipc_interface_map_set($1, 1)

.define(`polaris_mqipc_service_server',
  polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($3, $4, $2))))

.define(`polaris_mqipc_service_client',`)

.define(`polaris_mqipc_service_server_elastic_client',
  polaris_mqipc_service_server_aux(mqipc_stem($1), mqipc_label($1),
    polaris_mqipc_service_server_many(mqipc_label($1), $5, max_scope_map($4, elastic, $3))))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_if.m4

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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.fc
No license file was found, but licenses were detected in source scan.

policy_module(polarisbbu, 1.0);

gen_require(
    type polaris_bbu_t;
)

polaris_btrace_data_manage(polaris_bbu_t)
polaris_chasfs_manage(polaris_bbu_t)
polaris_tdlresolve_read(polaris_bbu_t)
polaris_cpld_read(polaris_bbu_t)
polaris_ripc_sman_ui_serv_connect(polaris_bbu_t)

# Allow I2C Usage
polaris_i2c_use(polaris_bbu_t)
polaris_i2c_sem_manage(polaris_bbu_t)

# Allow sysfs read for platform ID
dev_list_sysfs(polaris_bbu_t)

# Allow bbu to access NVRAM for /flash0/bbu
fs_getattr_tmpfs(polaris_bbu_t)
polaris_nvram_manage(polaris_bbu_t)
# Allow logger which is used for syslog messages
allow polaris_bbu_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_bbu_t)

# tty BBU device
type polaris_bbu_device_t;
dev_node(polaris_bbu_device_t)

polaris_bbu_dev_use(polaris_bbu_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.te
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#

## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

########################################
## <summary>
##      Execute a domain transition to run dmi_ports_fetch.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface(`polaris_dmi_ports_fetch_domtrans',`
gen_require(`
type polaris_dmi_ports_fetch_t, polaris_dmi_ports_fetch_exec_t;
`')

domtrans_pattern($1, polaris_dmi_ports_fetch_exec_t, polaris_dmi_ports_fetch_t)
`')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmportsfetch.if
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#
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#

policy_module(polariscliagent, 1.0);

gen_require(
    type polaris_cli_agent_t;
)

polaris_btrace_data_managem(polaris_cli_agent_t)
polaris_crft_data_managem(polaris_cli_agent_t)
polaris_chasfs_managem(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdlldb_list_dirs(polaris_cli_agent_t)
polaris_cpld_read(polaris_cli_agent_t)
polaris_flashlib_read(polaris_cli_agent_t)
polaris_ripc_sman_ui_serv_connect(polaris_cli_agent_t)
polaris_db_tdlldb_dir_use(polaris_cli_agent_t)
polaris_libeiutil_build_config_directory(polaris_cli_agent_t)

# cli_agent /var/run pid file
type polaris_cli_agent_var_run_t;
files_pid_file(polaris_cli_agent_var_run_t)
manage_files_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
manage_dirs_pattern(polaris_cli_agent_t, polaris_cli_agent_var_run_t, polaris_cli_agent_var_run_t)
files_pid_filetrans(polaris_cli_agent_t, polaris_cli_agent_var_run_t, { file dir })
polaris_cfg_data_managem(polaris_cli_agent_t)

# Provide sys_resource capability as well for sys_pipe calls
allow polaris_cli_agent_t self:capability { dac_override sys_resource };

logging_send_syslog_msg(polaris_cli_agent_t)

#DB persistence
polaris_tdlldbpersist_setup(polaris_cli_agent_t)
polaris_tmp_tdlldb_persist_setup(polaris_cli_agent_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.te
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#
policy_module(polarisflashlib, 1.0);

# Flashlib policy (infra/flashlib)

type polaris_flashlib_lock_t;
files_type(polaris_flashlib_lock_t)

gen_require('attribute polaris_extended_domain;
')

# /tmp/.flashlock file is used as flashlib lock
files_tmp_filetrans({ init_t polaris_extended_domain }, polaris_flashlib_lock_t, file, ".flashlock")

type polaris_flashlib_log_t;
files_type(polaris_flashlib_log_t)

gen_require('attribute polaris_extended_domain;
')

# /tmp/flashdev.log file is used as flashlib to log
files_tmp_filetrans(polaris_extended_domain, polaris_flashlib_log_t, file, "flashdev.log")

# /dev/shm/flash_shm shared memory
files_type(polaris_flash_shm_t)

gen_require('attribute polaris_domain;
type tmpfs_t;
')

filetrans_pattern(polaris_domain, tmpfs_t, polaris_flash_shm_t, file, "flash_shm")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.te
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#

## <summary>Polaris CPLD Policy Rules.</summary>

# Quack Driver policy

## <summary>Work (read, write, ioctl) with /dev/quack</summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_quack_dev_use`,
  gen_require(`
    type device_t;
    type polaris_quack_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_quack_device_t)
  read_chr_files_pattern($1, device_t, polaris_quack_device_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.if
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## <summary>Polaris wstatsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.if
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dnl
Mar 2020, Manu Roy

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PETRA PLATFORM MAX BAY LIMITS

max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/petramaps.m4

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#

policy_module(polariswstatsd, 1.0);

gen_require(`
    type polaris_wstatsd_t;
')
polaris_btrace_data_manage(polaris_wstatsd_t)
polaris_crft_data_manage(polaris_wstatsd_t)
polaris_chasfs_manage(polaris_wstatsd_t)
polaris_tdlresolve_read(polaris_wstatsd_t)
polaris_tdldb_list_dirs(polaris_wstatsd_t)
polaris_cpld_read(polaris_wstatsd_t)
polaris_lua_read(polaris_wstatsd_t)
polaris_flashlib_read(polaris_wstatsd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wstatsd_t)
polaris_db_tdldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setoptgetattr };
corennet_udp_bind_generic_node(polaris_wstatsd_t)
corennet_udp_bind_polaris_capwap_data_port(polaris_wstatsd_t)
polaris_socketat_nsfs_read(polaris_wstatsd_t)
polaris_lfts_dev_use(polaris_wstatsd_t)

polaris_tdlldbpersist_setup(polaris_wstatsd_t)

polaris_tmp_tdlldb_persist_setup(polaris_wstatsd_t)

logging_send_syslog_msg(polaris_wstatsd_t)

#allow to read /etc/passwd
auth_use_nsswitch(polaris_wstatsd_t)

#this is being given for process to execute tar
corecmd_exec_bin(polaris_wstatsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.te

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#
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#
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#

policy_module(polarisfnfagg, 1.0);

gen_require('
    type polaris_fnf_agg_t;
')

polaris_btrace_data_manage(polaris_fnf_agg_t)
polaris_crft_data_manage(polaris_fnf_agg_t)
polaris_chasfs_read(polaris_fnf_agg_t)
polaris_tdlresolve_read(polaris_fnf_agg_t)
polaris_lua_read(polaris_fnf_agg_t)
polaris_flashlib_read(polaris_fnf_agg_t)
polaris_cpld_read(polaris_fnf_agg_t)

polaris_ripc_sman_ui_serv_connect(polaris_fnf_agg_t)

polaris_db_tdlldb_dir_use(polaris_fnf_agg_t)

allow polaris_fnf_agg_t self:capability { dac_override dac_read_search };

type polaris_fnf_agg_tmp_t;
files_tmp_file(polaris_fnf_agg_tmp_t)
files_tmp_filetrans(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, dir, "fnf_agg")
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg }

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

# allow sending files over HTTP
corenet_tcp_connect_http_port(polaris_fnf_agg_t)
sysnet_read_config(polaris_fnf_agg_t)

# allow UDP connection for punting fnf records
allow polaris_fnf_agg_t self:udp_socket { create_socket_perms recv_msg }
corenet_udp_bind_generic_node(polaris_fnf_agg_t)

# allow punting on routers/ewlc where lfts is being used
polaris_lfts_dev_use(polaris_fnf_agg_t)

[paths]
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te

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#

## <summary>Polaris VXE Platform Policy Rules.</summary>

interface(`polaris_objstore_sem_use',`
gen_require(`
    type polaris_objstore_sem_t;
    )
allow $1 polaris_objstore_sem_t:sem rw_sem_perms;
    mmap_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    manage_files_pattern($1, polaris_objstore_sem_t, polaris_objstore_sem_t)
    )

### <summary>Work (read, write, ioctl) with /dev/vda1 device</summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
interface(`polaris_grub_efi_use',`
gen_require(`
type polaris_grub_efi_t;

write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)

##########################################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_grub_efi_search',
#    gen_require(''
#        type polaris_grub_efi_t;
#    ')
#    search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
#)

##########################################################
## <summary>
## Read VXE install info files
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_vxeinstall_info_read',
#    gen_require(''
#        type polaris_vxeinstall_info_t;
#    ')
#    read_files_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
#    list_dirs_pattern($1, polaris_vxeinstall_info_t, polaris_vxeinstall_info_t)
#)

##########################################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
interface('polaris_grub_info_read',
    gen_require(''
        type polaris_grubver_t;
        type polaris_grub_bios_t;
        type polaris_grub_efi_t;
    ')
    read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
    read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
    list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
)

interface('polaris_grubcfg_manage',
    gen_require(''
        type polaris_grub_bios_t;
        type polaris_grub_efi_t;
    ')
    manage_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    manage_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    manage_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
    manage_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
)

# Manage /dev/vda1 device the efi partition
#<summary>
#<param name="domain">
#<summary>
# Domain allowed access.
#</summary>
#</param>

# Manage regular files/directories under /varied/grub
# CSR manages files in legacy grub disk location
# also allow run readlink -f /dev/bootflash
#<summary>
#<param name="domain">
#<summary>
# Domain allowed access.
#</summary>
interface('polaris_legacy_grub_manage',
    gen_require(
        type boot_t;
        type fixed_disk_device_t;
    )
)
manage_files_pattern($1, boot_t, boot_t)
manage_dirs_pattern($1, boot_t, boot_t)
storage_getattr_fixed_disk_dev($1)
)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/hanet
#       hanet driver used by vpcgw platform of VXE family
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#ifdef('vpcgw_platform',
interface('polaris_hanet_dev_use',
    gen_require(
        type device_t;
        type polaris_hanet_device_t;
    )
)
      write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
      read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
    )
  )
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.if
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#
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#
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#
/usr/bin/os/conf/pman.sh -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/usr/bin/pman -- gen_context(system_u:object_r:polaris_pman_exec_t,s0)
/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
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dnl

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dnl

dnl Macallan Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 9)
max_bay_map_set(`fp', `per_bay', 9)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 10)
max_bay_ripc_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 10)
max_bay_ripc_map_set(`fp', `global', 1)


dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set("cc", `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/macallanmaps.m4
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polarisissustack, 1,0);

gen_require(
    type polaris_issu_stack_t;
')
corecmd_exec_bin(polaris_issu_stack_t)
corecmd_exec_shell(polaris_issu_stack_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_lg_so(polaris_issu_stack_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_stack_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_issu_stack_t)

# work with /tmp files (/tmp/issu_stk)
type polaris_issu_stack_tmp_t;
files_tmp_file(polaris_issu_stack_tmp_t)
manage_dirs_pattern(polaris_issu_stack_tmp_t, tmp_t, polaris_issu_stack_tmp_t)
manage_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
manage_fifo_files_pattern(polaris_issu_stack_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, file)
files_tmp_filetrans(polaris_issu_stack_t, polaris_issu_stack_tmp_t, dir, "issu_stk")

allow polaris_issu_stack_t self:capability sys_resource;
polaris_btrace_data_manage(polaris_issu_stack_t)
polaris_chasfs_manage(polaris_issu_stack_t)
polaris_cpld_read(polaris_issu_stack_t)
polaris_proc_rmonbifo_read(polaris_issu_stack_t)
polaris_rmonbifo_tmp_read(polaris_issu_stack_t)
polaris_boot_tmp_read(polaris_issu_stack_t)
polaris_tdlresolve_read(polaris_issu_stack_t)
polaris_disk_crashinfo_getattr(polaris_issu_stack_t)

allow polaris_issu_stack_t self:capability dac_override;

polaris_read_debug_conf(polaris_issu_stack_t)

polaris_flashlib_read(polaris_issu_stack_t)

allow polaris_issu_stack_t self:process setpgid;

# modify tdlresolve epoch
polaris_tdlresolve_manage(polaris_issu_stack_t)

#rsync_exec(polaris_issu_stack_t)
gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_issu_stack_t, rsync_t)
allow rsync_t polaris_issu_stack_t:process sigchld;

# execute rsync over eobc: /usr/binos/conf/mcp_chvrf.sh eobc rsync
polaris_chvrf_domtrans(polaris_issu_stack_t)
# from chvrf.sh code executes rsync command
gen_require(
    type polaris_chvrf_t;
)
rsync_entry_domtrans(polaris_chvrf_t, rsync_t)
# LOOK AT ME: issu_stack.sh leaks fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
manage_fifo_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
write_files_pattern(polaris_chvrf_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_engine_domtrans(polaris_issu_stack_t)
# LOOK AT ME: isse_stack.sh leak fd of /tmp/issu_stk/chassis_state_evt_fifo
# for now grant access, since changing script may not be trivial
gen_require(
    type polaris_install_engine_t;
)
read_fifo_files_pattern(polaris_install_engine_t, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)

polaris_install_tmp_read(polaris_issu_stack_t)

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_issu_stack_t)
# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_issu_stack_t)

# reads /tmp/remote_sw_verinfo.txt
gen_require('  
    type rsync_tmp_t;
    ')
read_files_pattern(polaris_issu_stack_t, rsync_tmp_t, rsync_tmp_t)

# watch over /tmp/tdlresolve/work
polaris_tdlresolve_watch(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua,epoch_endpoint_update.lua
polaris_lua_read(polaris_issu_stack_t)

# issu_stack.sh access to /tmp/rsync_log_dir
polaris_manage_rsync_tmplog_dir(polaris_issu_stack_t)

# issu_stack.sh access to epoch_merge.lua which merges epoch files, local.epoch and inyterchassis/.epcioh file
luajit/usr/binos/conf/epoch_merge.lua--base-file/tmp/tdlresolve/epoch_dir/local.epoch
--merge-file/tmp/tdlresolve/work/inter
allow polaris_issu_stack_t self:process execmem;

# access to /tmp/installer/
polaris_install_tmp_manage(polaris_issu_stack_t)

# access to /tmp/ufs/harddisk
polaris_ncd_tmp_read(polaris_issu_stack_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_stack_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.te
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#
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#
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#

policy_module(polarislsmpi, 1.0);

################################################################################################
# Polaris lsmpi
################################################################################################
type polaris_lmpi_device_t;
dev_node(polaris_lmpi_device_t)

# note polaris_sysfs_contdev_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

# punt/inject working through unix domain sockets
type polaris_pi_uds_t;
files_tmp_file(polaris_pi_uds_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.te
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#
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#

## <summary>Polaris mdt_pubd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisemd, 1.0);

gen_require(`
    type polaris_emd_t;
`)

polaris_btrace_data_manage(polaris_emd_t)
polaris_crft_data Manage(polaris_emd_t)
polaris_chasfs_manage(polaris_emd_t)
polaris_tdlresolve_read(polaris_emd_t)
polaris_tdlldb_listDirs(polaris_emd_t)
polaris_cpld_read(polaris_emd_t)
polaris_flashlib_read(polaris_emd_t)
polaris_ripc_sman_ui_serv_connect(polaris_emd_t)

polaris_cpld_dev_use(polaris_emd_t)
dev_read_sysfs(polaris_emd_t)
polaris_obfl_data_manage(polaris_emd_t)
polaris_persistent_read(polaris_emd_t)

allow polaris_emd_t self:capability dac_override;

ifdef('mcp_family',
polaris_scooby_dev_use(polaris_emd_t)
# read/write /sys/bus/i2c/drivers/pca9544/2-0077/reg_control and others
dev_getattr_sysfs_fs(polaris_emd_t)
dev_rw_sysfs(polaris_emd_t)
')

logging_send_syslog_msg(polaris_emd_t)

ifdef('qwlc_platform',
# on qwlc read eeprom through i2c like /sys/devices/i2c-12/12-0050/eeprom
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# sparrow needs access to /dev/i2c*
ifdef('sparrow_platform,'
gen_require('
    type polaris_cm_cc_tmpfs_t;
')
polaris_i2c_use(polaris_emd_t)
polaris_i2c_sem_manage(polaris_emd_t)
mmap_files_pattern(polaris_emd_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

ifdef('katar_platform',
dev_rw_sysfs(polaris_emd_t)
dev_getattr_sysfs_fs(polaris_emd_t)
')

# emd creates udp socket
allow polaris_emd_t self:udp_socket create_socket_perms;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.te
No license file was found, but licenses were detected in source scan.

#
## <summary>Polaris polarisdroputil Policy Rules.</summary>

### <summary>Manage droputils temporary files and directories in /tmp.</summary>
### <param name="domain">
## Domain allowed access.
### </param>

```
interface('polaris_droputil_manage_tmp_files',
    gen_require(
        type polaris_droputil_tmp_t;
    ')
    manage_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
    read_link_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
')
```

### <summary>Watch droputil_tmp directories</summary>
### <param name="domain">
## Domain allowed access.
### </param>

```
interface('polaris_droputil_tmp_watch',
    gen_require(
        type polaris_droputil_tmp_t;
    ')
    allow $1 polaris_droputil_tmp_t:dir watch;
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.if
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#
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#

/tmp/iosd_level -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)
/tmp/stack_apcount -- gen_context(system_u:object_r:polaris_lm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
define('polaris_ripc_service_server', '')
define('polaris_ripc_service_client', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_fc.m4
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dnl
dnl December 2018, Victor Kamensky
dnl
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dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake1maps.m4
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# # Sep 2020, Sridhar C
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#

policy_module(polaristlscd, 1.0);

gen_require(‘
    type polaris_tlscd_t;
    type net_conf_t;
’)

polaris_btrace_dataManage(polaris_tlscd_t)
polaris_chasfsManage(polaris_tlscd_t)
polaris_tldresolve_read(polaris_tlscd_t)
polaris_tldlist_dirs(polaris_tlscd_t)
polaris_lua_read(polaris_tlscd_t)
polaris_flashlib_read(polaris_tlscd_t)
polaris_chasfs_read(polaris_tlscd_t)
polaris_cpld_read(polaris_tlscd_t)
polaris_flashlib_read(polaris_tlscd_t)

# Related to vrf support of the socket
polaris_lfts_dev_use(polaris_tlscd_t)
polaris_socketat_nsfs_read(polaris_tlscd_t)
polaris_vrf_shm_manage(polaris_tlscd_t)

# TLSCd reads TCP/UDP ports open in VRF_GLOBAL for packet forwarding
# to IOSd or BinOS applications.
kernel_read_net_sysctls(polaris_tlscd_t)
kernel_read_network_state(polaris_tlscd_t)
kernel_search_network_sysctl(polaris_tlscd_t)
allow polaris_tlscd_t net_conf_t:dir search;
allow polaris_tlscd_t net_conf_t:file { getattr open read watch };

# UDS related sockets are:
# /tmp/tlsd/iosd_to_tlsd_0_socket
# /tmp/tlsd/tlsd_to_iosd_0_socket
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind
type polaris_tlscd_uds_t;

type polaris_tlscd_uds_t;

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files_tmp_file(polaris_tlscd_uds_t)
polaris_tlscd_uds_manage(polaris_tlscd_t)
polaris_iosd_dgram_send(polaris_tlscd_t)
allow polaris_tlscd_t self:unix_dgram_socket { bind create }

# Tunnel and TLS TCP connection related related
corenet_rw_tun_tap_dev(polaris_tlscd_t)
allow polaris_tlscd_t self:tun_socket create;
corenet_tcp_connect_all_ports(polaris_tlscd_t)

# errmsg
logging_send_syslog_msg(polaris_tlscd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
declare(`polaris_database_aux', `dnl
type $1;
polaris_tdldb_type($1)
')

declare(`polaris_database', `dnl
polaris_database_aux(database_label($1))
')

declare(`polaris_database_process_aux_full', `dnl
gen_require(`
    type $2;
polaris_db_tdldb_$1_use($2)
')

define(`polaris_database_process_aux', `dnl
ifelse(database_use_map($1, $2), ",", `polaris_database_process_aux_full($1, $2))
database_use_map_set($1, $2, 1)
')

define(`polaris_database_process', `dnl
polaris_database_process_aux(database_stem($1), process_label($2))
')
# January 2021, Gabriel Lee, Shawn Liu
#
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#

## <summary>Polaris ezmanage Policy Rules.</summary>

### <summary>Transition to ezmanage</summary>

## <summary>
## Transition to ezmanage
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>

# interface('polaris_ezmanage_domtrans',
# gen_require('type polaris_ezmanage_t, polaris_ezmanage_exec_t;
# ')

domtrans_pattern($1, polaris_ezmanage_exec_t, polaris_ezmanage_t)
')

### <summary>Read files under polaris_ezmanage_file_t label</summary>

## <summary>
## Read files under polaris_ezmanage_file_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

# interface('polaris_ezmanage_files',
# gen_require('type polaris_ezmanage_file_t;
# ')

manage_files_pattern($1, polaris_ezmanage_file_t , polaris_ezmanage_file_t)
read_link_files_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
manage_dirs_pattern($1, polaris_ezmanage_file_t, polaris_ezmanage_file_t)
')

########################################
## <summary>
## Manage files under polaris_ezmanage_var_run_t label
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_manage_ezmanage_var_run_files',
    gen_require(''
        type polaris_ezmanage_var_run_t;
    ')
    manage_sock_files_pattern($1, polaris_ezmanage_var_run_t, polaris_ezmanage_var_run_t);
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.if
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#

policy_module(polariscedge, 1.0);

# /tmp/xml handling
type polaris_cedge_xml_tmp_t;
files_tmp_file(polaris_cedge_xml_tmp_t)

# PLEASE LOOK AT ME very strange choice of directory name
# /tmp/tmp/ handling
type polaris_cedge_tmp_t;
files_tmp_file(polaris_cedge_tmp_t)

# /etc/viptela handling
type polaris_cedge_etc_t;
files_config_file(polaris_cedge_etc_t)
# /dev/shm handling
type polaris_cedge_tmpfs_t;
files_tmpfs_file(polaris_cedge_tmpfs_t)

# /tmp/econf2sysmgr-ipc handling
type polaris_econf2sysmgr_tmp_t;
files_tmp_file(polaris_econf2sysmgr_tmp_t)

# vconfd_script_reboot.sh policy
polaris_vconfd_domain_template(vconfd_reboot)

# vconfd_script_if_reset.sh policy
polaris_vconfd_domain_template(vconfd_ifreset)

# vconfd_script_get_config.sh policy
polaris_vconfd_domain_template(vconfd_cfg)

###############################################################################
# vconfd_script_*_stats policy
polaris_vconfd_domain_template(vconfd_history)
corecmd_exec_bin(polaris_vconfd_history_t)

# performs 'rm /tmp/xml/Pfr/Pfr-1600801323.xml.gz'....but, do not know where
polaris_cedge_tmp_manage(polaris_vconfd_history_t)

# performs 'ls -rt /tmp/xml/UtdUrlf-IOX' etc.
polaris_cedge_xml_tmp_manage(polaris_vconfd_history_t)

# vconfd_script_manage_list_stats.sh performs operations on
# /tmp/vconfd/stats.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_history_t)

###############################################################################
# software policy
polaris_vconfd_domain_template(vconfd_software)

# nms policy
polaris_vconfd_domain_template(vconfd_nms)

# device policy
polaris_vconfd_domain_template(vconfd_device)

# internal policy
polaris_vconfd_domain_template(vconfd_reset)

# cert policy
polaris_vconfd_domain_template(vconfd_cert)
# csr policy
polaris_vconfd_domain_template(vconfd_csr)

# vconfd_script_show_csr.sh invokes vlog
# /bin/sh vlog ....
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_vconfd_csr_t)
corecmd_exec_bin(polaris_vconfd_csr_t)

# reads /usr/share/viptela/server.csr
polaris_bootflash_read(polaris_vconfd_csr_t)

# serial vsmart-upload vedge-upload policy
polaris_vconfd_domain_template(vconfd_serialnum)

# crash policy
polaris_vconfd_domain_template(vconfd_crash)

# aaa policy
polaris_vconfd_domain_template(vconfd_aaa)

# container policy
polaris_vconfd_domain_template(vconfd_contr)

# iox policy
polaris_vconfd_domain_template(vconfd_iox)

# utd policy
polaris_vconfd_domain_template(vconfd_utd)

# geo policy
polaris_vconfd_domain_template(vconfd_geo)

# vconfd_script_vnping.sh, vconfd_script_vping.sh, vconfd_script_vtraceroute.sh
# scripts policy
polaris_vconfd_domain_template(vconfd_net)

# runs ip command
sysnet_domtrans_ifconfig(polaris_vconfd_net_t)
# runs confd_cmd
corecmd_exec_bin(polaris_vconfd_net_t)
polaris_confd_connect(polaris_vconfd_net_t)
# /tmp/ polaris_vconfd_cert_t handling

type polaris_vconfd_cert_tmp_t;
files_tmp_file(polaris_vconfd_cert_tmp_t)
files_tmp_filetrans(polaris_vconfd_cert_tmp_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_tmp_t)

# permit access to polaris_vconfd_cert_t
allow polaris_vconfd_cert_t self:capability { chown dac_override };

logging_send_syslog_msg(polaris_vconfd_cert_t)
corecmd_sbin_entry_type(polaris_vconfd_cert_t)
corecmd_shell_entry_type(polaris_vconfd_cert_t)

fs_read_nsfs_files(polaris_vconfd_cert_t)
logging_create_devlog_dev(polaris_vconfd_cert_t)

# to access the /bootflash: as the cert is stored in /bootflash:
# IOS cert related CLIs can create/store the certs in /bootflash with any
# file name(s), so allow generic access to bootflash.
polaris_bootflash_manage(polaris_vconfd_cert_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vconfd_cert_t)
polaris_cedge_reset_ns(polaris_vconfd_cert_t)

# needed for accessing /tmp/chassis/local/rp/chasfs/midplane/chassis_model
polaris_chasfs_read(polaris_vconfd_cert_t)

#access to /etc/viptela
-gen_require(' type polaris_nginx_t;
')
polaris_cedge_etc_manage(polaris_nginx_t)

# For "confd_cmd", allow polaris_vconfd_cert_t, which is not a Binos process,
# to access polaris_confd_ipc_ripc_port_t.
polaris_ripc_confd_ipc_connect(polaris_vconfd_cert_t)

# permit to access /var/run/netns/default
sysnet_manage_ifconfig_run(polaris_vconfd_cert_t)

# vconfd_script_show_root_ca_cert.sh performs operations on
# /tmp/vconfd/root_cert.XXXXXX
polaris_vconfd_tmp_manage(polaris_vconfd_cert_t)
fs_getattr_tmpfs(polaris_vconfd_cert_t)
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris CPLD Policy Rules.</summary>

### CPLD Policy

#### Interface Policy

```plaintext
interface(`polaris_cpld_read',
gen_require(`
type polaris_sysfs_cpld_t;
type sysfs_t;
')
read_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
genfscon statement specifically excludes symbolic links from
genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file { read getattr ;}
list_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
')
```

### Write CPLD Policy

```plaintext
interface(`polaris_cpld_write',
gen_require(`
type polaris_sysfs_cpld_t;
type sysfs_t;
')
write_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
')
```
interface('polaris_cpld_write',
    gen_require(''
        type polaris_sysfs_cpld_t;
        type sysfs_t;
    ')
    manage_files_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    manage_dirs_pattern($1, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)
    # genfscon statement specifically excludes symbolic links from
    # genfscon path specific entries. To workaround, let us allow
    # to follow sysfs_t symbolic links
    allow $1 sysfs_t:lnk_file { read getattr };"
)

interface('polaris_cpld_dev_use',
    gen_require(''
        type device_t;
        type polaris_cpld_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    allow $1 polaris_cpld_device_t:chr_file map;
)

interface('polaris_cpld_dev_read',
    gen_require(''
        type device_t;
        type polaris_cpld_device_t;
    ')
    read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
    allow $1 polaris_cpld_device_t:chr_file map;
)
type device_t;
type polaris_cpld_device_t;
')
read_chr_files_pattern($1, device_t, polaris_cpld_device_t)
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.if
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#
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#
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#

policy_module(polariscrankshaft, 1.0);

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# bde device (/dev/linux-user-bde)
type polaris_bde_device_t;
dev_node(polaris_bde_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# nios device (/dev/nios)
type polaris_nios_device_t;
dev_node(polaris_nios_device_t)

# qae device (/dev/qae_mem)
type polaris_qae_device_t;
dev_node(polaris_qae_device_t)

# moka fpga device (/dev/moka_fpga)
type polaris_mokafpga_device_t;
dev_node(polaris_mokafpga_device_t)

# sirius fpga device (/dev/sirius_fpga)
type polaris_siriusfpga_device_t;
dev_node(polaris_siriusfpga_device_t);

# moka nim device (/dev/nim_dm*)
type polaris_nim_dm_device_t;
dev_node(polaris_nim_dm_device_t)

# /dev/bp_async device on nanook platform
 type polaris_bp_async_device_t;
dev_node(polaris_bp_async_device_t)

# /dev/sparrow_psu device on sparrow platform
 type polaris_sparrow_psu_device_t;
dev_node(polaris_sparrow_psu_device_t)

# /dev/nutella_fpga device on nutella platform
 type polaris_nutella_fpga_device_t;
dev_node(polaris_nutella_fpga_device_t)

# /dev/huron_fpga on Sumatra platform
 type polaris_huron_device_t;
dev_node(polaris_huron_device_t)

# /dev/dplr_sumatra on Sumatra platform
 type polaris_sumatra_doppler_device_t;
dev_node(polaris_sumatra_doppler_device_t)

# /tmp/sata_status for mSATA
 type polaris_sata_status_tmp_t;
files_tmp_file(polaris_sata_status_tmp_t)

# TSN tsn_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_NGWC_FED - crankshaft_platform.tdl refers it but
# tsn_platform.tdl does not contain such definition.
ifdef(`tsn_platform',`
 type polaris_ngwc_fed_t;
')

# Supernova supernova_platform.tdl for IPCs and processes definition and it uses
# crankshaft_platform.tdl for databases definition. Unfortunately they are
# out of sync wrt BPROC_FM_RP - crankshaft_platform.tdl refers it but
# supernova_platform.tdl does not contain such definition.
ifdef(`supernova_platform',`
 type polaris_fman_rp_t;
')

# Nanook
The Nanook platform does not support SDWAN and so the SDWAN processes are not defined in the nanook_platform.tdl. However, it uses the database_def's from the crankshaft_platform.tdl, which do have the SDWAN databases. So we need to add the processes to the SELinux policy.

```c
ifdef(`nanook_platform',`

type polarisCfgmgr_t;
type polarisExp_t;
type polarisDbgd_t;
type polarisFpm_t;
type polarisFtm_t;
type polarisOmp_t;
type polarisSdavc_proxy_t;
type polarisTtm_t;
type polarisVdaemon_t;
type polarisHtx_t;
')
```

# load_usbnet policies start

# /usr/binos/conf/load_usbnet.sh is invoked to load usb network driver module  
# kernel/drivers/net/usb/usbnet.ko for TSN.

```c
polaris_process_domain_template(load_usbnet)

# allow polaris_load_usbnet_t access to execute programs in system bin dirs, load  
# usbnet.ko for USB network interface for TSN and allow read access  
# to /sys/class/net and /proc/cmdline
# LOOK AT ME: /tmp/rp/pvp/work/inot_fifo inotifywait fd leak to child
corecmd_exec_bin(polaris_load_usbnet_t)
modutils_exec_insmod(polaris_load_usbnet_t)
modutils_list_module_config(polaris_load_usbnet_t)
modutils_read_module_config(polaris_load_usbnet_t)
sysnet_manage_config_dirs(polaris_load_usbnet_t)
polaris_pvp_stdin_read(polaris_load_usbnet_t)
files_read_kernel_modules(polaris_load_usbnet_t)
dev_rw_sysfs(polaris_load_usbnet_t)
kernell_read_system_state(polaris_load_usbnet_t)

# stdout inherited from unconfined_service that might call it
polaris_unconfined_service_fifo_file_manage(polaris_load_usbnet_t)

# handle /tmp/load_usbnet_intf
type polaris_load_usbnet_tmp_t;
files_tmp_file(polaris_load_usbnet_tmp_t)
files_tmp_filetrans(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, file)
```
manage_files_pattern(polaris_load_usbnet_t, polaris_load_usbnet_tmp_t, polaris_load_usbnet_tmp_t)

# allow read of /etc/passwd
# allow map permission
# passwd_file_t:file { getattr open read };
auth_map_passwd(polaris_load_usbnet_t)

#############################################################################
# load_usbnet policies end
#############################################################################

#############################################################################
# CLI: show platform hardware msata <status/info>
#############################################################################
ifdef(`crankshaft_family',`
  gen_require(
    type polaris_sysfs_ggpio_t;
    type polaris_msata_info_t;
  )
)
polaris_utility_domain_template(msata_info)
polaris_bexecute_domain(polaris_msata_info_t, polaris_msata_info_exec_t)
# need write for pipes like "pipe:[70623]"
corecmd_exec_bin(polaris_msata_info_t)
# need write/getattr for pipes like "pipe:[71322]"
polaris_cmrp_use_fifo(polaris_msata_info_t)
fstools_domtrans(polaris_msata_info_t)
# allow use of mSATA device
polaris_nvram_manage(polaris_msata_info_t)
# allow self
allow polaris_msata_info_t self:capability sys_rawio;
allow polaris_msata_info_t self:process setfscreate;
# allow /usr/sbin/smartctl to access /sys/devices/platform/cpn-110-master/
# cpn-110-master:config-space/f2540000.sata/ata2/host1/scsi_host/host1/proc_name and
# /sys/devices/platform/cpn-110-master/cpn-110-master:config-space/f2540000.sata/
# ata2/host1/target1:0:0
read_files_pattern(polaris_msata_info_t, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
dev_list_sysfs(polaris_msata_info_t)
# allow smartctl to access to /dev/sda to determine its lifetime
storage_raw_read_fixed_disk(polaris_msata_info_t)

# CLI: show platform hardware slot p[x] fan eeprom
polaris_utility_domain_template(smart_fan)
polaris_bexecute_domain(polaris_smart_fan_t, polaris_smart_fan_exec_t)
# allow /ls command
corecmd_exec_bin(polaris_smart_fan_t)
# allow read of /etc/passwd
auth_map_passwd(polaris_smart_fan_t)
# allow read of /sys/devices/platform/nios/*
dev_read_sysfs(polaris_smart_fan_t)
# need write/getattr access for pipes like "pipe:[86004]"
polaris_cmrp_use_fifo(polaris_smart_fan_t)

# sumatra and sparrow platforms need map access for "show platform hardware msata status | lifetime"
auth_map_passwd(polaris_msata_info_t)

if(ndef("sumatra_platform"));
# During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
dev_files_tmp_filetrans(polaris_msata_info_t, polaris_sata_status_tmp_t, file)
manage_files_pattern(polaris_msata_info_t, polaris_sata_status_tmp_t, polaris_sata_status_tmp_t)

################################################################################
# show platform hardware msata end
################################################################################

#type for /dev/qcqmiX
type qcqmi_device_t;
dev_node(qcqmi_device_t);

# sm_nim_adpt device (/dev/sm_nim_adpt_xxx )
type polaris_sm_nim_adpt_device_t;
dev_node(polaris_sm_nim_adpt_device_t)

# dio device
type polaris_dio_device_t;
dev_node(polaris_dio_device_t)

# tty NMEA device
type polaris_tty_NMEA_device_t;
dev_node(polaris_tty_NMEA_device_t)

# memory blocks and gpp on Nutella-XE platform
type polaris_nutella_memory_block_p7_t;
dev_node(polaris_nutella_memory_block_p7_t)

type polaris_nutella_memory_block_p1_t;
dev_node(polaris_nutella_memory_block_p1_t)

type polaris_nutella_memory_block_boot_t;
dev_node(polaris_nutella_memory_block_boot_t)

type polaris_nutella_gp0_t;
dev_node(polaris_nutella_gp0_t)
type polaris_nutella_gpp_t;
dev_node(polaris_nutella_gpp_t)

# nim device (/dev/nim_phy)
type polaris_nim_phy_device_t;
dev_node(polaris_nim_phy_device_t)

type polaris_cwan_svr_var_run_t;
files_pid_file(polaris_cwan_svr_var_run_t)

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  * /opt/cola/permits/1103986360_1615183271.1/0/selinux-tar/selinux/polariscrankshaft.te
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#

### <summary>Polaris epc_ws_liaison Policy Rules.</summary>

interface(`polaris_epc_ws_liaison_tmp_read',`
gen_require(`
    type polaris_epc_ws_liaison_tmp_t;
  `)
  read_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

#################################################################
### <summary>
###      Allow to open, write, add_name and write /tmp/epc_ws/fed_to_wif_pipe file.
###      Allow to create and write /tmp/epc_ws dir.
### </summary>
### <param name="domain">
###      <summary>
###      epc_ws_liaison and ngwc-fed fifo_file interaction.
###      </summary>
### </param>
#
interface(`polaris_epc_ws_liaison_fifo_manage',`
gen_require(`
    type polaris_epc_ws_liaison_tmp_t;
  `)
  manage_dirs_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
  manage_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
`)

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## <summary>
## Allow to open, read `/tmp/epc_ws/wif_to_ts_pipe` fifo file.
##
## </summary>
##<param name="domain">
##<summary>
## epc_ws_liaison and dumpcap fifo_file interaction.
##</summary>
##</param>
#
interface(`polaris_epc_ws_liaison_fifo_read',
  genRequire(`
    type polaris_epc_ws_liaison_tmp_t;
  ')
  read_fifo_files_pattern($1, polaris_epc_ws_liaison_tmp_t, polaris_epc_ws_liaison_tmp_t)
')

## <summary>
## Allow to write, create, unlink `/tmp/*.pcapng` temporary files.
##
## </summary>
##<param name="domain">
##<summary>
## polaris_wireshark_show fifo_file interaction.
##</summary>
##</param>
#
interface(`polaris_wireshark_show_tmp_manage',
  genRequire(`
    type polaris_wireshark_show_tmp_t;
  ')
  manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')

## Create, read, and write temporary files.
##
## </summary>
##<param name="domain">
##<summary>
##Domain allowed access.
##</summary>
##</param>
#
interface(`polaris_epc_ws_liaison_tmp_file',
  genRequire(`
type polaris_epc_ws_liaison_tmp_t;
')
files_tmp_filetrans($1, polaris_epc_ws_liaison_tmp_t, dir, "epc_ws")
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.if
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#

policy_module(polariscxp, 1.0);

gen_require(
       type polaris_cxp_t;
')
polaris_chasfs_read(polaris_cxp_t)
polaris_cpld_read(polaris_cxp_t)
logging_send_syslog_msg(polaris_cxp_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_cxp_t)

corecmd_exec_bin(polaris_cxp_t)
corecmd_exec_shell(polaris_cxp_t)
auth_use_nsswitch(polaris_cxp_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cxp_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cxp_t)

# /var/run/cxp dir and pid
type polaris_cxp_var_run_t;
files_pid_file(polaris_cxp_var_run_t)
manage_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_dirs_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
manage_sock_files_pattern(polaris_cxp_t, polaris_cxp_var_run_t, polaris_cxp_var_run_t)
files_pid_filetrans(polaris_cxp_t, polaris_cxp_var_run_t, { file dir sock_file })

polaris_ttm_var_sock_write(polaris_cxp_t)
# vip_execute_nowait uses setpgid
allow polaris_cxp_t self:process setpgid;

# cxp may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_cxp_t)

# Allow /usr//cxpd manages /usr/binos/conf/global.service.conf and
# /tmp/tdlresolve/
ppolaris_tdlresolve_manage(polaris_cxp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.te
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#
#
/usr/binos/conf/viptela-start.sh -- gen_context(system_u:object_r:polaris_cedge_start_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.fc
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dnl
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dnl
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dnl
dnl divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_te.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformdbauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database te.m4
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#

### <summary>Polaris vman Policy Rules.</summary>

###################################################
### <summary>
### Read files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_vman_tmp_read',`
  gen_require(`
    type polaris_vman_tmp_t;
  `)
  read_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
`)

###################################################
### <summary>
### Write files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface(`polaris_vman_tmp_write',`
  gen_require(`
    type polaris_vman_tmp_t;
  `)
  write_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
')

###############################################################################
## <summary>
##      Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vman_tmp_manage',
    gen_require(
        type polaris_vman_tmp_t;
    )
    manage_files_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
    manage_dirs_pattern($1, polaris_vman_tmp_t, polaris_vman_tmp_t)
')

###############################################################################
## <summary>
##      Read files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_vman_read',
    gen_require(
        type polaris_disk_vman_t;
    )
    read_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
    read_lnk_files_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
    list_dirs_pattern($1, polaris_disk_vman_t, polaris_disk_vman_t)
')

###############################################################################
## <summary>
##      List files of type polaris_disk_vman_t (e.g., /bootflash/virtual-instance/)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface('polaris_disk_vman_dir_list','
  gen_require('  
    type polaris_disk_vman_t;  
    type polaris_disk_bootflash_t;  
    type polaris_disk_harddisk_t;  
  ')
  list_dirs_pattern($1, { polaris_disk_vman_t polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
')

#######################################
## <summary>
##      Operate on @vman_domain_socket unix socket. Look at
## vman_clnt_msg_transport_init function in vman_clnt_msg_uds.c
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vman_use_client_socket','
  gen_require('   
    type polaris_vman_t;  
  ')
  allow $1 polaris_vman_t:unix_stream_socket connectto;
')

#######################################
## <summary>
##      Manage /tmp/xml/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vman_log_files_manage','
  optional_policy('    
    gen_require('       
      type polaris_vman_log_t;  
    ')
    manage_files_pattern($1, polaris_vman_log_t,polaris_vman_log_t)
  ')
manage_dirs_pattern($1, polaris_vman_log_t, polaris_vman_log_t)
')
')

# <summary>
# Read files of type polaris_var_vman_t (e.g., /var/virtual-instance)
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
#
interface(`polaris_vman_var_read',`
  gen_require(
    type polaris_var_vman_t;
  )
  list_dirs_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
  read_files_pattern($1, polaris_var_vman_t, polaris_var_vman_t)
)

# <summary>
# Write into fifo file created by vman, typical case when vman starts script under popen in different domain.
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
# <rolecap/>
#
interface(`polaris_vman_use_fifo',`
  gen_require(
    type polaris_vman_t;
  )
  read_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
  write_fifo_files_pattern($1, polaris_vman_t, polaris_vman_t)
)

# <summary>
# Check existence (getattr) of vman btrace file (i.e polaris_vman_bt_t)
# </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_bt_getattr`,
    gen_require(`
        type polaris_vman_bt_t;
        type polaris_btrace_base_t;
    `)
    getattr_files_pattern($1, polaris_btrace_base_t, polaris_vman_bt_t)
`)

########################################################################
## <summary>
##      Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_virtlog_allow`,
    gen_require(`
        type virtlogd_t;
    `)
    #allow domain to write to pipes
    allow $1 virtlogd_t:fifo_file rw_inherited_fifo_file_perms;
    #allow virtlogd_t to search dirs /var/log/libvirt/qemu
    logging_search_logs(virtlogd_t)
`)

########################################################################
## <summary>
##      Allow polaris_vman_t to kill process from domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vman_kill_process`,
    gen_require(`
type polaris_vman_t;
"
allow polaris_vman_t $1:process sigkill;
"

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.if
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#

### <summary>Polaris tws Policy Rules.</summary>

###########################################################
### <summary>
### Allow the specified domain to manage KGV data files
### I.e /tmp/package_biv_sums.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_kgv_data_manage`,
    gen_require(`
        type polaris_kgv_data_t;
    `)
    manage_files_pattern($1, polaris_kgv_data_t, polaris_kgv_data_t)
    allow $1 polaris_kgv_data_t:file map;
    `)

###########################################################
### <summary>
### Execute a domain transition to run code_sign_verify
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_code_verify_domtrans',
   gen_require(
       type polaris_code_verify_t, polaris_code_verify_exec_t;
   ')
)

domtrans_pattern($1, polaris_code_verify_exec_t, polaris_code_verify_t)
')

########################################
## <summary>
##      Execute a domain transition to the polaris_hw_upgrade
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_hw_upgrade_domtrans',
   gen_require(
       type polaris_hw_upgrade_t, polaris_hw_upgrade_exec_t;
   ')

corecmd_search_bin($1)
   domtrans_pattern($1, polaris_hw_upgrade_exec_t, polaris_hw_upgrade_t)
')

########################################
## <summary>
##      Work (read, write, ioctl) with /dev/aikido device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_aikido_dev_use',
   gen_require(
       type device_t;
       type polaris_aikido_device_t;
   ')
   write_chr_files_pattern($1, device_t, polaris_aikido_device_t)
   read_chr_files_pattern($1, device_t, polaris_aikido_device_t)
')

########################################
## <summary>
## Execute a domain transition to the polaris_rom_upgrade
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_rom_upgrade_domtrans',`
  gen_require(`
   type polaris_hw_upgrade_t, polaris_rom_upgrade_exec_t;
  `)
  corecmd_search_bin($1)
  domtrans_pattern($1, polaris_rom_upgrade_exec_t, polaris_rom_upgrade_t)
`)

####################################
## <summary>
## Write into fifo file created during rommon_upgrade
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_rom_upgrade_use_fifo',`
  gen_require(`
   type polaris_rom_upgrade_t;
  `)

   write_fifo_files_pattern($1, polaris_rom_upgrade_t, polaris_rom_upgrade_t)
`)

####################################
## <summary>
## Work (read, write, ioctl) with /dev/scansta device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_scansta_dev_use',`
  gen_require(`
type device_t;
type polaris_scansta_device_t;
}

write_chr_files_pattern($1, device_t, polaris_scansta_device_t)
read_chr_files_pattern($1, device_t, polaris_scansta_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.if
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#

/tmp/*.chasfs(/.*)?    gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis/local/*.chasfs(/.*)  gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis   gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/chassis(/.*)    gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/*.chasasync(/.*)?  gen_context(system_u:object_r:polaris_chasasync_tmp_t,s0)
/vol/harddisk/sys_report(/.*)?  gen_context(system_u:object_r:polaris_chasasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/.*)?  gen_context(system_u:object_r:polaris_chasasync_files_t,s0)
/var/log/chasasync(/.*)?  gen_context(system_u:object_r:polaris_chasasync_log_t,s0)
/usr/binos/conf/chasasync.sh -- gen_context(system_u:object_r:polaris_chasasync_exec_t,s0)

# real path is /etc/init.d/chasfs_boottime.sh but we need to add rc.d because
# in file_contexts.subs_dist we have substitute rule for /etc/init.d/
/etc/rc.d/init.d/chasfs_boottime.sh -- gen_context(system_u:object_r:polaris_chasfs_boottime_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.fc
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#
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#

/tmp/.CRDU_COMMANDPIPE    gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSEPIPE   gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
manage_files_pattern(polaris_smand_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_smand_tmp_t, { file dir })

# allow read of /etc/group
auth_use_nsswitch(polaris_smand_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_smand_t)

# allow objstore access
polaris_disk_objstore_read(polaris_smand_t)

# on edison smand shares sysv semaphore with iosd, why sem got initrc_t label
# is not clear.
gen_require(
    type initrc_t;
)
allow polaris_smand_t initrc_t:sem { read write unix_write associate };

# why smand needs all these capability?
allow polaris_smand_t self:capability { dac_override chown fsetid };
allow polaris_smand_t self:capability2 block_suspend;
allow polaris_smand_t self:capability sys_resource;

# on edison smand wants to read /proc/mtd which is proc_t
# type=AVC msg=audit(1478481219.216:6): avc:  denied  { read } for  pid=5410 comm="smand" name="mtd"
dev="proc" ino=4026535811 scontext=sys_u:system_r:polaris_smand_t:s0
tcontext=sys_u:object_r:proc_t:s0 tclass=file
# try to drop it latter
kernel_read_system_state(polaris_smand_t)

# on edison silent roll package is still in iso format
# type=AVC msg=audit(1478497356.229:7): avc:  denied  { getattr } for  pid=5816 comm="smand"
path="/tmp/sw/mount/cat3k_caa-srdriver.2016-11-06_21.10_kamensky.SSA.pkg/usr/bin/os/lib64" dev="loop7"
ino=3456 scontext=sys_u:system_r:polaris_smand_t:s0 tcontext=sys_u:object_r:iso9660_t:s0 tclass=dir
# gen_require(
#   type iso9660_t;
#)
allow polaris_smand_t iso9660_t:dir { search getattr };

polaris_dyncfg_tmp_read(polaris_smand_t)
corecmd_exec_shell(polaris_smand_t)

corecmd_exec_bin(polaris_smand_t)

# CLI "Show install issu history" invokes /usr/binos/conf/install_issu_show.py which
# needs /usr/bin/python3(bin file) execution
corecmd_exec_bin(polaris_smand_t)
# smand execute install_show.sh in its own domain need read results
polaris_install_show_tmp_read(polaris_smand_t)

# during boot issu_boottime.sh calls smand to obtain some information
gen_require('  
type unconfined_service_t;
  ')
domtrans_pattern(unconfined_service_t, polaris_smand_exec_t, polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# ioctl(fd, SIOCGIFADDR, &ifr); on "system" interface name, which normally
# does not exist in Polaris platforms
kernel_dontaudit_request_load_module(polaris_smand_t)

# system_stats_periodic function from sman/src/fru_stats.c does
# statfs64 for /flash directory
fs_getattr_xattr_fs(polaris_smand_t)
polaris_disk_bootflash_read_link(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

gen_require('  
type rsync_t;
  ')
# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

gen_require('  
type polaris_bshell_t;
  ')
polaris_chasfs_read(polaris_bshell_t)
polaris_tdlresolve_read(polaris_bshell_t)

# bshell memory logs related
type polaris_memmon_tmp_files_t;
files_tmp_file(polaris_memmon_tmp_files_t)
files_tmp_filetrans(unconfined_service_t, polaris_memmon_tmp_files_t, dir, "memmon_logs")
## give bshell permissions
manage_files_pattern(polaris_bshell_t, polaris_memmon_tmp_files_t, polaris_memmon_tmp_files_t)

# sman needs to access gnmib gnoi images
optional_policy('  
polaris_gnmib_gnoi_images_read(polaris_smand_t)
  ')

# CLI "Show install issu history" access to "/bootflash/installer/install_issu_history"
# and "/tmp/show_install_output.txt"
polaris_install_engine_domtrans(polaris_smand_t)
polaris_install_show_domtrans(polaris_smand_t)
# xcopy_script gets called for xcopy RPC data model
polaris_xcopy_script_domtrans(polaris_smand_t)

#
=====================================================================
#
"sh ip ports" CLI policies, execute trans_ports_helper.sh script
polaris_utility_domain_template(trans_ports_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_ports_helper_exec_t, polaris_trans_ports_helper_t)
# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_ports_helper_t)
# execute "tail" command
corecmd_exec_bin(polaris_trans_ports_helper_t)
corecmd_exec_shell(polaris_trans_ports_helper_t)
polaris_proc_fd_all_getattr(polaris_trans_ports_helper_t)
# getattr all polaris_domain
domain_getattr_all_domains(polaris_trans_ports_helper_t)
# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_ports_helper_t)
fs_read_nsfs_files(polaris_trans_ports_helper_t)

# ls of options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_ports_helper_t)
# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
allow polaris_trans_ports_helper_t self:capability { sys_ptrace };

# allow file and directory read and execute permission checks
allow polaris_trans_ports_helper_t self:capability dac_read_search;

# map /etc/passwd
auth_use_nsswitch(polaris_trans_ports_helper_t)

type polaris_trans_ports_tmp_t;
files_tmp_file(polaris_trans_ports_tmp_t)
# create /tmp/trans_ports_tmp and /tmp/trans_ports_result
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_tmp")
files_tmp_filetrans(polaris_trans_ports_helper_t, polaris_trans_ports_tmp_t, file, "show_ports_result")
polaris_trans_ports_tmp_manage(polaris_trans_ports_helper_t)
# smand open and unlinks /tmp/trans_ports_tmp
polaris_trans_ports_tmp_manage(polaris_smand_t)
#
=====================================================================
#
"show platform software kernel ... " CLI executes trans_stats_helper.sh. Need domain
# transition
#
polaris_utility_domain_template(trans_stats_helper)
# transit into the domain
domtrans_pattern(polaris_smand_t, polaris_trans_stats_helper_exec_t, polaris_trans_stats_helper_t)
# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_trans_stats_helper_t)
# execute lsof in helper script
corecmd_exec_bin(polaris_trans_stats_helper_t)
corecmd_exec_shell(polaris_trans_stats_helper_t)
auth_use_nsswitch(polaris_trans_stats_helper_t)
# lsof reads /proc/*/fd/* attributes
polaris_proc_fd_all_getattr(polaris_trans_stats_helper_t)

# lsof options tcp reads /proc/net/raw
kernel_read_network_state(polaris_trans_stats_helper_t)

# lsof reads /proc/locks
kernel_read_system_state(polaris_trans_stats_helper_t)

# lsof readmnt
fs_read_nsfs_files(polaris_trans_stats_helper_t)

# ls access to /proc/3792/fd/6 triggers sys_ptrace capability
# and dac_read_search as well.
allow polaris_trans_stats_helper_t self:capability { sys_ptrace dac_read_search };

type polaris_trans_stats_tmp_t;
files_tmp_file(polaris_trans_stats_tmp_t)
# create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp")
files_tmp_filetrans(polaris_trans_stats_helper_t, polaris_trans_stats_tmp_t, file, "trans_tmp.1")
polaris_trans_stats_tmp_manage(polaris_trans_stats_helper_t)
# smand open and unlinks /tmp/trans_tmp
polaris_trans_stats_tmp_manage(polaris_smand_t)

# run mcp_chvrf.sh without transition
polaris_exec_chvrf(polaris_trans_stats_helper_t)

#
=================================================================
==============
# CLI "request platform hardware filesystem harddisk: offline | online" which runs mcp_disk_oir.sh
polaris_utility_domain_template(disk_oir)
polaris_bexecute_domain(polaris_disk_oir_t, polaris_disk_oir_exec_t)
# execute lsof
corecmd_exec_bin(polaris_disk_oir_t)
# This is a CLI script that access types and /proc/pid/fd/*
polaris_proc_fd_all_getattr(polaris_disk_oir_t)

# access sysctl_rpc_t
kernel_read_rpc_sysctls(polaris_disk_oir_t)

# reads /proc/net/*
kernel_read_network_state(polaris_disk_oir_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_disk_oir_t)

# lsOf readmnt
fs_read_nsfs_files(polaris_disk_oir_t)

# inherits stdin/stdout of pty opened by telnetd
telnet_use_ptys(polaris_disk_oir_t)

allow polaris_disk_oir_t self:capability { dac_read_search sys_nice sys_rawio };
allow polaris_disk_oir_t self:process { setfscreate setsched };

# execute lvm commands
lvm_domtrans(polaris_disk_oir_t)

# "lsOf -nP"read /dev/sda1 (/csl_p_0) and other operations when disk is destroyed.
storage_manage_fixed_disk(polaris_disk_oir_t)

# access /tmp/chassis/cpld/chasfs
polaris_chasfs_read(polaris_disk_oir_t)

# cat /tmp/chassis/cpld/chasfs/platform_type'
polaris_cpld_read(polaris_disk_oir_t)

# /bin/rm -rf /tmp/udev/etc/udev/harddisk'
fs_getattr_tmpfs(polaris_disk_oir_t)

# access /tmp/udev/etc/udev/harddisk'
polaris_udev_tmp_manage(polaris_disk_oir_t)

# /bin/mkdir -p /tmp/udev_cache/harddisk
files_tmp_filetrans(polaris_disk_oir_t, polaris_udev_tmp_files_t, dir, "udev_cache")

# systemctl start handle_mount@vol-harddisk.service, communiate with systemd
systemd_exec_systemctl(polaris_disk_oir_t)
# mount /dev/harddisk1 /vol/harddisk
mount_domtrans(polaris_disk_oir_t)

# read /proc/cmdline
kernel_read_all_proc(polaris_disk_oir_t)

# system service start/stop: /lib/systemd/system/handle_mount@.service
systemd_config_generic_services(polaris_disk_oir_t)

#/sbin/hdparm -S 0 /dev/sdb, execute hdparm in its own domain
fstools_domtrans(polaris_disk_oir_t)

ifdef('crankshaft_family',
    gen_require('type device_t;
type udev_t;
')
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
filetrans_pattern( {udev_t polaris_disk_oir_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
manage_link_files_pattern(polaris_disk_oir_t, fixed_disk_device_t, fixed_disk_device_t)
# /dev/harddisk may be labeled with device_t. The "unlink" AVC denial will be fixed when it is labeled correctly

# allow /bin/dd to access /dev/nvme in blk_file
dev_nvme_blk_files_manage(polaris_disk_oir_t)

# allow /bin/cat to access /tmp/nim_xxd_present
gen_require('type polaris_cmrp_nim_xxd_tmp_t;
')
read_files_pattern(polaris_disk_oir_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)
')

#watches of /tmp/[rp|fp|cc]/pvp/process_state directory
polaris_process_state_watch(polaris_smand_t)

ifdef('petra_platform',
#allow access to polaris_cm_rp sem
polaris_cm_rp_sem_use(polaris_smand_t)
#allow access to /flash12/moncfg/cfg.dat
polaris_swipedrive_file_manage(polaris_smand_t)
#allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_smand_t)
')
dmesg_domtrans(polaris_smand_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
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#

# pci rescan shm file
/dev/shm/rescan_shm  gen_context(system_u:object_r:polaris_cm_ccTmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.fc
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
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#

## <summary>Polaris mobilityd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.if
No license file was found, but licenses were detected in source scan.

# # September 2018, Anubha Balani
#
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# All rights reserved
#

policy_module(polarismemory, 1.0);

################################################################################
# Polaris memory: libmaroon and such
################################################################################

attribute polaris_maroon_data_domain;

type polaris_maroon_base_t;
files_type(polaris_maroon_base_t)

typeattribute polaris_maroon_base_t polaris_maroon_data_domain;

gen_require(
    attribute polaris_extended_domain;
)
files_tmp_filetrans(polarisExtended_domain, polaris_maroon_base_t, dir, "maroon_stats")

type polaris_zram_device_t;
dev_node(polaris_zram_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
# polarisemd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
#
### <summary>Polaris nif_mgr Policy Rules.</summary>

########################################################################
### <summary>
### Use /tmp/sv directory and files. Currently this acts as a
### chasfs root for information shared between the nif manager
### and the fed.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_sv_tmp_use',
    gen_require(
        type polaris_sv_tmp_t;
type tmp_t;
manage_dirs_pattern($1, tmp_t, polaris_sv_tmp_t)
manage_files_pattern($1, polaris_sv_tmp_t, polaris_sv_tmp_t)
allow $1 polaris_sv_tmp_t:dir watch;
)

########################################
## <summary>
## This is to allow creation and write to
## doppler_sesa file under proc
##
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface('polaris_proc_sesa_create_write',
    gen_require(
        type polaris_proc_sesa_t;
    ')

setattr_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
rw_files_pattern($1, polaris_proc_sesa_t, polaris_proc_sesa_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.if
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
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#
/usr/bin/os/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/bin/os/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/bin/os/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)

/tmp/btrace_luids_file.cdb.tmp     -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
/tmp/btrace_luids_file.cdb         -- gen_context(system_u:object_r:polaris_ldb_tmp_t,s0)
/tmp/cc/0/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/cc/0/trace/fifo(/.*)? gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/fp/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/fp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/rp/trace(/.*)? gen_context(system_u:object_r:polaris_btrace_base_t,s0)
/tmp/rp/trace/fifo gen_context(system_u:object_r:polaris_fifo_stdout_base_t,s0)
/tmp/rp/trace/fifo(/.*)? gen_context(system_u:object_r:polaris_fifo_stdout_t,s0)
/dev/shm/sem/.uuid_sem gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)
/dev/shm/oper_uuid_shm gen_context(system_u:object_r:polaris_btrace_tmpfs_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
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#
# September 2017, Victor Kamensky
#
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#
#
# polarisunconfined file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.fc
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#
# February 2020, Victor Kamensky
#
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#
#
policy_module(polarisdbgd, 1.0);

gen_require(`
    type polaris_dbgd_t;
`)
polaris_chasfs_read(polaris_dbgd_t)
polaris_tdlresolve_read(polaris_dbgd_t)
polaris_cpld_read(polaris_dbgd_t)
logging_send_syslog_msg(polaris_dbgd_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_dbgd_t)

# /var/run/dbgd socket and pid
type polaris_dbgd_var_run_t;
files_pid_file(polaris_dbgd_var_run_t)
manages_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manages_sock_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
files_pid_filetrans(polaris_dbgd_t, polaris_dbgd_var_run_t, { file sock_file })

polaris_vdaemon_var_sock_write(polaris_dbgd_t)

# dbgd may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_dbgd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.te
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#
# March 2020, Victor Kamensky
#
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#

## <summary>Polaris JVM Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.if
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.te
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.te
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#

policy_module(polarisezmancc, 1.0);

gen_require('
type polaris_ezman_cc_t;

polaris_chasfs_read(polaris_ezman_cc_t)
polaris_cpld_read(polaris_ezman_cc_t)
polaris_tdlresolve_read(polaris_ezman_cc_t)
polaris_ripc_sman_ui_serv_connect(polaris_ezman_cc_t)

allow polaris_ezman_cc_t self:capability dac_override;
polaris_oob_evfc_dev_use(polaris_ezman_cc_t)

# LOOK AT ME by some reason relabeling of /dev/ezlkm
# device files does not work
dev_rw_generic_chr_files(polaris_ezman_cc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.te
No license file was found, but licenses were detected in source scan.

#
# Oct 2020, Xin Xiang
#
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#

policy_module(polarisdoppler, 1.0);

# doppler interrupt device
type polaris_dplr_device_t;
dev_node(polaris_dplr_device_t)

# dma mmap device
type polaris_dmammap_device_t;
dev_node(polaris_dmammap_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdoppler.te
No license file was found, but licenses were detected in source scan.

#
# Nov 2020, Swati Kumari
#
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#
## <summary>Polaris PTPD Policy Rules.</summary>

### Work (read, write, ioctl) with /dev/blzi_fpga

### <summary><param name="domain">Domain allowed access.</param></summary>

```c
interface(`polaris_blzi_dev_use`,
  gen_require(`
    type device_t;
    type polaris_blzi_device_t;
  `)
  write_chr_files_pattern($1, device_t, polaris_blzi_device_t)
  read_chr_files_pattern($1, device_t, polaris_blzi_device_t)
  allow $1 polaris_blzi_device_t:chr_file map;
`)```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.if

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

# March 2017, Victor Kamensky

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## <summary>Polaris cpp_cp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.if

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# March 2017, Victor Kamensky

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```
policy_module(polariscppdriver, 1.0);
```
gen_require("
    type polaris_cpp_driver_t;
  ")

polaris_btrace_data_manage(polaris_cpp_driver_t)
polaris_crft_data_manage(polaris_cpp_driver_t)
polaris_chasfs_manage(polaris_cpp_driver_t)
polaris_tdlresolve_read(polaris_cpp_driver_t)
polaris_tdl.db_list_dirs(polaris_cpp_driver_t)
polaris_cpld_read(polaris_cpp_driver_t)
polaris_flashlib_read(polaris_cpp_driver_t)
polaris_ripc_sman.ui_serv_connect(polaris_cpp_driver_t)
polaris_cpp_process(polaris_cpp_driver_t)
polaris_cpp_dev_use(polaris_cpp_driver_t)

# allow read variety of system information from sysfs
# type=AVC msg=audit(1479601620.503:19): avc: denied { open } for pid=22839 comm="cpp_driver"
# path="/sys/devices/system/node/node0/meminfo" dev="sysfs" ino=805
scontext=system_u:object_r:sysfs_t:s0 tcontext=system_u:system_r:sysfs_t:s0 tclass=file
dev_read_sysfs(polaris_cpp_driver_t)

optional_policy("  
# cpp_driver reads qfp executable to look at .stabs sections that  
# contains qfp code fixups, then this fixup data is passed to kernel  
# module to modify qfp code.  
gen_require("   
    type bin_t;  
    type polaris_qfp_exec_t;  
  ")
read_files_pattern(polaris_cpp_driver_t, bin_t, polaris_qfp_exec_t)
"
)
polaris_icc_broken_relocations(polaris_cpp_driver_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cpp_driver_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_driver_t)
logging_send_syslog_msg(polaris_cpp_driver_t)

# LOOK AT ME: raw memory access in cavium vendor SDK  
# related to octeon driver (BUG CSCvh58515)  
ifdef("crankshaft_family","
  polaris_dev_mem_use(polaris_cpp_driver_t)
"
)
# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of cpp_driver access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
ifdef(`crankshaft_family',
polaris_cm_fp_tmp_filetrans(polaris_cpp_driver_t)
polaris_cm_fp_tmp_manage(polaris_cpp_driver_t)
')

# LOOK AT ME on overloard cpp_driver needs access to /dev/cavium_e
# and /dev/pcie0 devices, on 1ng cpp_driver needs access to
# /dev/yoda0_tree2, etc
dev_rw_generic_chr_files(polaris_cpp_driver_t)

# /dev/cpp_il on qwlc
optional_policy(
polaris_cpp_il_dev_use(polaris_cpp_driver_t)
')

ifdef(`qwlc_platform',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`katar_platform',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

ifdef(`mcp_family',
polaris_cpld_dev_use(polaris_cpp_driver_t)
')

optional_policy(
polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
polaris_cbdma_dev_use(polaris_cpp_driver_t)
polaris_cpp_htdp_dev_use(polaris_cpp_driver_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.te
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#
# August 2017, Shawn Lu
#
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#

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## <summary>Polaris odm_proxy Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.if

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

```
# March 2017, Victor Kamensky
#
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#

policy_module(polarisbtrace, 1.0);

###############################################################################
# Btrace policy
###############################################################################
gen_require(
    attribute domain;
    attribute polaris_extended_domain;
    attribute unconfined_domain_type;
)

# persistent btrace files stored under btrace_data
type polaris_btrace_data_t;
files_type(polaris_btrace_data_t)

# allow btrace data file reside on persistent storage
polaris_pfile_type(polaris_btrace_data_t)

type polaris_fifo_stdout_t;
files_type(polaris_fifo_stdout_t)

type polaris_fifo_stdout_base_t;
files_type(polaris_fifo_stdout_base_t)

attribute polaris_btrace_data_domain;

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

files_tmp_filetrans(polaris_extended_domain, polaris_btrace_base_t, dir, "trace")
# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh -> btrace.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

# udev -> cat9k-ssd.mount -> unifiedfs_rsync_udev.sh might also create this dir
files_tmp_filetrans(udev_t, polaris_btrace_base_t, dir, "trace")

gen_require(
  attribute polaris_extended_domain;
  type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_btrace_base_t, dir, "trace")

# filetrans_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t, dir, "fifo")
filetrans_pattern(domain, polaris_fifo_stdout_base_t, polaris_fifo_stdout_t, fifo_file)
manage_dirs_pattern(polaris_extended_domain, polaris_btrace_base_t, polaris_fifo_stdout_base_t)
polaris_utility_domain_template(btdecode)

# any polaris process except iosd can execve btdecode utility to decode its own traces
gen_require(
  attribute polaris_domain;
  type polaris_iosd_t;
')
dontrans_pattern(polaris_domain - polaris_iosd_t, polaris_btdecode_exec_t, polaris_btdecode_t)
corecmd_check_exec_shell(polaris_domain - polaris_iosd_t)

# btdecode not only reads btrace files, but also creates copy of the file
polaris_btrace_data_manage_all(polaris_btdecode_t)
polaris_btrace_persistent_data_manage(polaris_btdecode_t)
polaris_use_btrace_fifo(polaris_btdecode_t)
polaris_tdlresolve_read(polaris_btdecode_t)
polaris_boot_tmp_read(polaris_btdecode_t)
polaris_lua_read(polaris_btdecode_t)
polaris_chasfs_read(polaris_btdecode_t)
polaris_cpld_read(polaris_btdecode_t)
polaris_bootflash_manage(polaris_btdecode_t)

# lua files need to read executables to retrieve btrace meta informations
files_mmap_all_files(polaris_btdecode_t)

# could be called on trace files on persistent storage
polaris_persistent_read(polaris_btdecode_t)

# need to read executables to retrieve btrace meta informations
polaris_read_exec_domain(polaris_btdecode_t)
corecmd_exec_bin(polaris_btdecode_t)
corecmd_exec_shell(polaris_btdecode_t)
# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btdecode_t)

# executes luajit
allow polaris_btdecode_t self:process execmem;

# tmp files created by /lua/btdecode.lua in /tmp
type polaris_btdecode_tmp_t;
files_tmp_file(polaris_btdecode_tmp_t);
files_tmp_filetrans(polaris_btdecode_t, polaris_btdecode_tmp_t, file);
manage_files_pattern(polaris_btdecode_t, polaris_btdecode_tmp_t, polaris_btdecode_tmp_t);

# /lua/btdecode.lua may call create_luid_file_db on demand
polaris_create_ldb_domtrans(polaris_btdecode_t);

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_btdecode_t);

# Allow btdecode to read/write /dev/pts/*
term_use_generic_ptys(polaris_btdecode_t);
polaris_btrace_ldb_tmp_read(polaris_btdecode_t);

# Allow btdecode to watch over /bootflash/tracelogs, /vol/harddisk/tarcelogs and /flash2/CRASH/tracelogs
polaris_btrace_data_watch(polaris_btdecode_t);

# Allow btdecode to watch over /usr/binos/conf
files_watch_usr_dirs(polaris_btdecode_t);

# Allow btdecode to access UFS mounted directories for other members
optional_policy(`
polaris_ncd_tmp_read(polaris_btdecode_t)
');

# btrace_rotate calls ftw function through create_luid_file_db utility
# that walks whole file tree in order to create btrace_luids_file.cdb
# let's have separate domain for this utility
polaris_utility_domain_template(create_ldb);

files_read_all_files(polaris_create_ldb_t);
files_getattr_all_dirs(polaris_create_ldb_t);
files_read_all_symlinks(polaris_create_ldb_t);
files_list_non_security(polaris_create_ldb_t);
files_dontaudit_list_security_dirs(polaris_create_ldb_t);
files_mmap_all_files(polaris_create_ldb_t);
# allow luid database scripts to read/write /dev/pts/*
term_use_generic_ptys(polaris_create_ldb_t)

# creates files like btrace_luids_file.cdb_20170907160108.tmp, btrace_luids_file.cdb
type polaris_ldb_tmp_t;
files_tmp_file(polaris_ldb_tmp_t)
files_tmp_filetrans(polaris_create_ldb_t, polaris_ldb_tmp_t, file)
files_tmp_filetrans(polaris_btdecode_t, polaris_ldb_tmp_t, file, "btrace_luids_file.cdb")
manage_files_pattern(polaris_create_ldb_t, polaris_ldb_tmp_t, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
mmap_files_pattern(polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t, polaris_create_ldb_t)
polaris_use_btrace_fifo(polaris_create_ldb_t)

# in some cases it runs with telnet /dev/ptyN as stdin/stdout
# example when executed on other node, or "monitor log profile"
# command
telnet_use_ptys(polaris_create_ldb_t)

# Allowing permission to read/open/getattr/ on
# /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
# gen_require(
#   type telnetd_exec_t;
# )
allow polaris_btdecode_t telnetdExec_t:file { getattr open read };
polaris_disk_bootflash_read_lnk(polaris_trace_filter_t)
polaris_disk_crashinfo_getattr(polaris_trace_filter_t)
polaris_bootflash_manage(polaris_trace_filter_t)
polaris_use_btman_fifo(polaris_trace_filter_t)
polaris_use_btrace_fifo(polaris_trace_filter_t)
polaris_smand_use_fifo(polaris_trace_filter_t)
polaris_cpld_read(polaris_trace_filter_t)
polaris_tldldb_list_dirs(polaris_trace_filter_t)
polaris_disk_harddisk_read_lnk(polaris_trace_filter_t)
kernel_read_system_state(polaris_trace_filter_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_filter_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access UFS mounted directories for other members
optional_policy(
  polaris_ncd_tmp_read(polaris_trace_filter_t)
)

# allow creation/access of temporary files created by bash such as
# /tmp/sh-thd-1499428203 etc
type polaris_trace_filter_tmp_t;
files_tmp_file(polaris_trace_filter_tmp_t)
files_tmp_filetrans(polaris_trace_filter_t, polaris_trace_filter_tmp_t, file)
manage_files_pattern(polaris_trace_filter_t, polaris_trace_filter_tmp_t, polaris_trace_filter_tmp_t)

# mcp_trace_filter.sh invokes: "df /tmp/rp/tdldb" and "df /dev/shm"
fs_getattr_tmpfs(polaris_trace_filter_t)

# allow accesses to polaris lua files
polaris_lua_read(polaris_trace_filter_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_filter_t)

corecmd_exec_bin(polaris_trace_filter_t)

# why does btrace show command needs to write into btrace state?
polaris_btrace_data_manage_all(polaris_trace_filter_t)
polaris_btrace_persistent_data_manage(polaris_trace_filter_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/harddisk/10.130.1.0
fs_getattr_nfs(polaris_trace_filter_t)
polaris_utility_domain_template(trace_request)

polaris_bexecute_domtrans(polaris_trace_request_t)
polaris_bexecute_domain(polaris_trace_request_t, polaris_trace_request_exec_t)

# Provide sys_resource capability for sys_pipe calls
allow polaris_trace_request_t self:capability sys_resource;

polaris_cpld_read(polaris_trace_request_t)
polaris_disk_crashinfo_getattr(polaris_trace_request_t)
polaris_disk_bootflash_read_lnk(polaris_trace_request_t)
polaris_disk_harddisk_read_lnk(polaris_trace_request_t)
polaris_chasfs_manage(polaris_trace_request_t)

fs_getattr_xattr_fs(polaris_trace_request_t)

# can execute hostname
hostname_exec(polaris_trace_request_t)

# can execute dmesg
dmesg_domtrans(polaris_trace_request_t)

# creates archives under /crashinfo
polaris_disk_crashinfo_manage(polaris_trace_request_t)

# can tar logs to persistent all file systems (including removable file systems)
polaris_persistent_manage(polaris_trace_request_t)
polaris_removable_manage(polaris_trace_request_t)

# read and write all btrace fifo file as standard input/output.
polaris_use_btrace_fifo(polaris_trace_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_trace_request_t)

# copies /tmp/silent_roll_select.log into /crashinfo so that it can be tar'd into an
# archive
polaris_pvp_read_tmp_files(polaris_trace_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_trace_request_t)

# in some cases mcp_trace_request.sh runs with telnet /dev/ptyN as
# stdin/stdout
telnet_use_ptys(polaris_trace_request_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_trace_request_t)

# read /proc/cmdline
kernel_read_system_state(polaris_trace_request_t)

corecmd_exec_bin(polaris_trace_request_t)

ifdef('ngwc_family',`
optional_policy('`
polaris_ncd_tmp_read(polaris_trace_request_t)
'`
)
')

# mcp_trace_request.sh can read all btrace files both in temp storage
# as well as in persistent storage
polaris_btrace_data_manage_all(polaris_trace_request_t)
polaris_btrace_persistent_data_manage(polaris_trace_request_t)

# Allow mcp_trace_request.sh to create and manage temporary files under /tmp
# such as /tmp/ntr_cntrl
type polaris_trace_request_tmp_t;
files_tmp_file(polaris_trace_request_tmp_t)
files_tmp_filetrans(polaris_trace_request_t, polaris_trace_request_tmp_t, file)
manage_files_pattern(polaris_trace_request_t, polaris_trace_request_tmp_t, polaris_trace_request_tmp_t)

# Allow mcp_trace_request.sh to access NFS mounted directories for other members
# such as /tmp/ufs/crashinfo/10.1.1.1
fs_getattr_nfs(polaris_trace_request_t)

# mcp_trace_request.sh invokes dmesg, which runs in dmesg_t domain needs access
# to btrace data store
gen_require('`
    type dmesg_t;
')
polaris_btrace_persistent_data_manage(dmesg_t)
# dmesg invocation in case of disk being full,
# results in writing to area of disk that
# requires the sys_resource capability.
allow dmesg_t self:capability sys_resource;

# Set /tmp/udev_ng4k.vbd.log to be under polaris_udev_tmp_files_t label
gen_require('`
    type udev_t;
    type polaris_udev_tmp_files_t;
type init_t;

')
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
files_tmp_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")
fs_tmpfs_filetrans(init_t, polaris_udev_tmp_files_t, file, "udev_ng4k.vbd.log")

# Add permission for mcp_trace_request to access polaris_udev_tmp_files_t files
polaris_udev_tmp_manage(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy(
  polaris_ncd_tmp_read(polaris_trace_request_t)
')

# Allow mcp_trace_request to get tmpfs attributes
fs_getattr_tmpfs(polaris_trace_request_t)

# allow mcp_trace_request to execute tar
allow polaris_trace_request_t self:capability { chown fowner fsetid };
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#
/usr/bin/os/conf/psvp.sh -- gen_context(system_u:object_r:polaris_psvp_exec_t,s0)
/tmp/rp/psvp -d gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/inot_fifo -p gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)
/tmp/rp/psvp/pvp.pid -- gen_context(system_u:object_r:polaris_psvp_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2021 by Cisco Systems, Inc.
# All rights reserved
#
policy_module(polarisbexecute, 1.0);

polaris_utility_domain_template(bexecute)

polaris_utility_domain_template(chvrf)

polaris_bexecute_domtrans(polaris_chvrf_t)
polaris_chvrf_domtrans(polaris_bexecute_t)
polaris_ngio_module_session_domtrans(polaris_bexecute_t)
polaris_rom_upgrade_use_fifo(polaris_chvrf_t)

###################################
# bexecute
###################################
corecmd_exec_bin(polaris_bexecute_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_bexecute_t)

dev_setattr_null_dev(polaris_bexecute_t)
polaris_btrace_data_manage(polaris_bexecute_t)
polaris_crft_data_manage(polaris_bexecute_t)
polaris_chasfs_manage(polaris_bexecute_t)
polaris_cpld_read(polaris_bexecute_t)
polaris_boot_tmp_read(polaris_bexecute_t)
polaris_mrobifo_tmp_read(polaris_bexecute_t)
polaris_rmonbifo_tmp_read(polaris_bexecute_t)
polaris_dynconf_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_tldldb_list_dirs(polaris_bexecute_t)
polaris_disk_bootflash_read_link(polaris_bexecute_t)
polaris_disk_harddisk_read_link(polaris_bexecute_t)

# open/read /tmp/sw/rp/max_elastic_bays
polaris_pvp_read_tmp_files(polaris_bexecute_t)

# search/getattr of /tmp/udev/etc/udev
polaris_udev_tmp_list_dirs(polaris_bexecute_t)

# manage files in /tmp/pman_ports
polaris_pman_manage_tmp_files(polaris_bexecute_t)

# brelay.sh does rm -rf of "/tmp/pman_ports/gdbport/9910"
# This checks tmpfs file system attributes
#
# Denial is observed after "show platform software audit summary"
# which uses brelay to trigger corresponding audit_log.sh script
fs_getattr_tmpfs(polaris_bexecute_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_bexecute_t)

# follow /tftp/inv symlink to /tmp/chassis/local/rp/chasfs/inventory
gen_require(''
    type tftpdir_rw_t;
')
read_link_files_pattern(polaris_bexecute_t, tftpdir_rw_t, tftpdir_rw_t)

# tries to do mkdir -p /tmp/rp/lipc, but it should exist already so
# getattr should be sufficient
polaris_lipc_getattr(polaris_bexecute_t)

# read /proc/cmdline
kernel_read_system_state(polaris_bexecute_t)

# binary tracing fifo_file as standard output
polaris_use_btrace_fifo(polaris_bexecute_t)
# write into pipe that smand created for us with popen
polaris_smand_use_fifo(polaris_bexecute_t)

allow polaris_bexecute_t self:capability { chown setgid setuid fowner net_admin };
allow polaris_bexecute_t self:process { setpgid setcap };

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
file_polaris_bexecute_tmp_t;
files_tmp_file(polaris_bexecute_tmp_t)
files_tmp_filetrans(polaris_bexecute_t, polaris_bexecute_tmp_t, file)
manage_files_pattern(polaris_bexecute_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# smand calls many commands through bexec.sh
polaris_smand_domain(polaris_bexecute_t, polaris_bexecute_exec_t)

# hman invokes cpp_shm_mgr_info_show.sh which in turn invokes "mktemp -p /tmp/tmppub..."
polaris_btrace_tmppub_manager(polaris_bexecute_t)

ifdef(`nyquist_platform',`
  term_use_unallocated_ttys(polaris_bexecute_t)
  term_setattr_unallocated_ttys(polaris_bexecute_t)
')

ifdef(`radium_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)

  # allow /usr/binos/conf/bexecute.sh for tcp_socket access
  # due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
  # /usr/binos/conf/bexecute.sh -c /usr/binos/conf/module_direct.py
  # 0 bp0 PROMETHIUM-L"
  gen_require(`
    type polaris_cm_rp_t;
  ')
  allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;
')

#ifdef(`sumatra_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)

  # allow /usr/binos/conf/bexecute.sh for tcp_socket access
  # due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
  # /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
  # /usr/binos/conf/execute_co"
  gen_require(`
    type polaris_dmi_ncsshdfwd_t;
  ')
  allow polaris_chvrf_t polaris_dmi_ncsshdfwd_t:tcp_socket ioctl;
')

ifdef(`sumatra_platform',`
polaris_load_usbnet_domtrans(polaris_bexecute_t)
'}
ifdef(`nanook_platform',`
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

ifdef(`supernova_platform',`
  polaris_load_usbnet_domtrans(polaris_bexecute_t)
')

polaris ISSU tmp_files manage(polaris_bexecute_t)

# Unlike other platforms, quake platform has runin_exec_proc.sh script,
# which is started by xinetd in inetd_t domain,
# and needs to switch to bexecute domain.
# In turn, runin_exec_proc.sh then starts in.telnetd process which needs
# to run in telnetd_t domain, for the existing policies to do the rest.
ifdef(`quake_platform',`
  gen_require(`
    type inetd_t;
    type telnetd_t;
    type telnetd_exec_t;
  ')
  polaris bexecute_domtrans(inetd_t)
  polaris bexecute_domain(telnetd_t, telnetd_exec_t)
')

ассив policy(`
  polaris cmrp_use_fifo(polaris_chvrf_t)
')

ассив policy(`
  polaris dmi_nccshd_fwd_use_fifo(polaris_chvrf_t)
')
# mcp_chvrf.sh may run into files created by bexecute
manage_files_pattern(polaris_chvrf_t, polaris_bexecute_tmp_t, polaris_bexecute_tmp_t)

# init may transition to polaris_chvrf_t - certain systemd units use
# mcp_chvrf.sh to start services
gen_require(
    type init_t;
')
polaris_chvrf_domtrans(init_t)

# mcp_chvrf.sh used to start xinetd services
gen_require(
    type inetd_t;
    type inetd_exec_t;
')
domtrans_pattern(polaris_chvrf_t, inetd_exec_t, inetd_t)

# in some cases mcp_chvrf needs to write into someone fifo stdout
# file, i.e when called from ncd.sh script
polaris_use_btrace_fifo(polaris_chvrf_t)

sysnet_domtrans_ifconfig(polaris_chvrf_t)

# during some execve calls chvrf needs list /tmp/etc
polaris_etc_list(polaris_chvrf_t)

ifdef(`ngwc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')

ifdef(`mcp_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')

ifdef(`wlc_family',`
# /tmp/rsync_log_dir/rsync_log_XXX is stdout when mcp_chvrf.sh with rsync is called
# also /tmp/etc/installer/inot_fifo file descriptor is leaked from the script
polaris_manage_rsync_tmplog_dir(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_chvrf_t)
polaris_autoupgrade_tmp Manage(polaris_bexecute_t)
')
# For "request platform software system shell" CLI, we have:
#    /bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/binos/conf/bexecute.sh
#    -c /usr/binos/conf/mcp_record_shell.sh
# mcp_chvrf.sh needs read/write access to /dev/pts/1:
#   allow polaris_chvrf_t telnetd_devpts_t:chr_file { read write };
telnet_use_ptys(polaris_chvrf_t)

ifdef(`nyquist_platform',`
    term_use_unallocated_ttys(polaris_chvrf_t)
')

# some times run with unix_stream_socket as stdin
init_ioctl_stream_sockets(polaris_chvrf_t)

# bexecute and mcp_chvrf.sh called from install_show.sh
polaris_install_show_tmp_write(polaris_bexecute_t)
polaris_install_show_tmp_write(polaris_chvrf_t)

# install_engine.sh uses brelay to re-launch install_engine in all FRUs.
# So, op_rp_switch_to_remote_loc_in_parallel() outputs to install tmp log file;
# check invocation-point for comms_run_on_remote_fru.

polaris_install_tmp_log_write(polaris_bexecute_t)
polaris_install_tmp_log_write(polaris_chvrf_t)

# CLI: show platform hardware cpp active infrastructure shared-memory all
# this results in hman invoking following chain of shell scrips.
#   /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
#   /bin/bash /usr/binos/conf/bexecute.sh -c /usr/binos/conf/cpp_shm_mgr_info_show.sh
#   /bin/sh /usr/binos/conf/cpp_shm_mgr_info_show.sh
#   /bin/bash /usr/binos/conf/bshell.sh -S -c "show platform hardware qfp active 
#        infrastructure shared-memory process cpp-control-process"
# All these are executed in polaris_bexecute_t domain and write access to following lipc
# is needed: /tmp/rp/lipc/shell_mgr_bshell_serv_socket
polaris_sman_bshell_serv_lipc_write(polaris_bexecute_t)
polaris_tdlresolve_read(polaris_bexecute_t)

# This block is policies for "sh pla so process memory r0 name iosd maps" CLI
polaris_utility_domain_template(process_maps)
polaris_bexecute_domain(polaris_process_maps_t, polaris_process_maps_exec_t)

# needs to read maps files.
domain_read_all_domains_state(polaris_process_maps_t)

# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_process_maps_t)
kernell_read_system_state(polaris_process_maps_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_process_maps_t)

corecmd_exec_bin(polaris_process_maps_t)

# This block is policies for "request platform software system shell" CLI.
# Eventually, mcp_record_shell.sh is invoked. That needs its own domain.
polaris_utility_domain_template(platform_shell)
polaris_bexecute_domain(polaris_platform_shell_t, polaris_platform_shell_exec_t)
corecmd_exec_bin(polaris_platform_shell_t)
auth_use_nsswitch(polaris_platform_shell_t)
polaris_btrace_persistent_data_manage(polaris_platform_shell_t)
polaris_cpld_read(polaris_platform_shell_t)

# cyan libraries access /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_platform_shell_t)

# pglobals.sh accesses /tmp/ufs//crashinfo on cat9k platforms
optional_policy('polaris_ncd_tmp_read(polaris_platform_shell_t)
')

# mcp_record_shell.sh needs read access to chafs
polaris_chasfs_read(polaris_platform_shell_t)

# mcp_record_shell.sh needs read access to /dev/pts/0 (telnetd_devpts_t)
telnet_use_ptys(polaris_platform_shell_t)

# rsync /tmp/system_shell_access_logs/$system_shell_access_log_file
# rsync://rp0-0/chasfs/etc/system_shell_access_logs/
gen_require(' type rsync_t;
'
r sync_entry_domtrans(polaris_platform_shell_t, rsync_t)
allow rsync_t polaris_platform_shell_t:process sigchld;
telnet_use_ptys(rsync_t)

logging_send_syslog_msg(polaris_platform_shell_t)
init_list_pid_dirs(polaris_platform_shell_t)

# when reload command is issued, needs "kill" capability
allow polaris_platform_shell_t self:capability kill;

# brelay started from telnetd as result it inherits stdin/stdout of pty opened
# by telnetd
telnet_use_ptys(polaris_bexecute_t)
gen_require(
  type telnetd_devpts_t;
')
allow polaris_bexecute_t telnetd_devpts_t:chr_file setattr_chr_file_perms;
allow polaris_bexecute_t self:capability fsetid;

# mcp_record_shell.sh invokes:
# /usr/bin/script -q /harddisk/tracelogs/system_shell_R0*
# - needs access to /root/.bash_history
# - performs chmod on /dev/pts/2 (needs fsetid on self)
# - ioctl/open/read/write on /dev/ptmx
# - needs read/search access to /harddisk/tracelogs
type polaris_bash_tmp_t;
files_type(polaris_bash_tmp_t)
filetrans_pattern(domain, user_home_dir_t, polaris_bash_tmp_t, file, ".bash_history")
polaris_bash_tmp_manage(polaris_platform_shell_t)
allow polaris_platform_shell_t self:capability fsetid;
term_use_generic_ptys(polaris_platform_shell_t)
term_setattr_generic_ptys(polaris_platform_shell_t)
term_getattr_pty_fs(polaris_platform_shell_t)
term_use_ptmx(polaris_platform_shell_t)
polaris_disk_bootflash_read_lnk(polaris_platform_shell_t)
polaris_disk_harddisk_read_lnk(polaris_platform_shell_t)

# mcp_record_shell.sh invokes:
# mkdir /tmp/system_shell_access_logs
# create /tmp/system_shell_access_logs/SHELL_ACCESSED_*
type polaris_platform_shell_tmp_t;
files_temp_file(polaris_platform_shell_tmp_t)
files_temp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
files_temp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, file)
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline
kernle_read_system_state(polaris_platform_shell_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_platform_shell_t)

polaris_disk_crashinfo_getattr(polaris_platform_shell_t)

polaris_utility_domain_template(shell)

term_use_generic_ptys(polaris_shell_t)

domtrans_pattern(polaris_platform_shell_t, polaris_shell_exec_t, polaris_shell_t)

# reload command needs the following policies to send signal
polaris_send_signal_to_bexecute(polaris_platform_shell_t)
polaris_send_signal_to_shell(polaris_platform_shell_t)

### <desc>
### <p>
### Polaris "request platform system shell" drops into unconfined shell
### </p>
### </desc>
gen_tunable(polaris_dev_shell, true)

tunable_policy('polaris_dev_shell',

        polaris_unconfined_domain(polaris_shell_t)

)  
polaris_domain_storage_unconfined_type(polaris_shell_t)

# PLEASE LOOK AT ME do we have to many ports open
# bteln runs under bexecute in case of guest shell console access
# command like app-hosting connect appid guestshell console
allow polaris_bexecute_t self:tcp_socket { connect create setopt };
corenet_tcp_connect_unreserved_ports(polaris_bexecute_t)
sysnet_read_config(polaris_bexecute_t)

# brelay.sh does ls /tmp/ufs//crashinfo on cat9k
allow polaris_bexecute_t self:capability dac_override;
polaris_disk_crashinfo_getattr(polaris_bexecute_t)
optional_policy(  
polaris_ncd_tmp_read(polaris_bexecute_t)
)

polaris_utility_domain_template(bconsole)

polaris_boot_tmp_read(polaris_bconsole_t)
polaris_btrace_data_manage(polaris_bconsole_t)
polaris_chasfs_read(polaris_bconsole_t)
polaris_cpld_read(polaris_bconsole_t)
polaris_proc_rmonbifo_read(polaris_bconsole_t)
polaris_rmonbifo_tmp_read(polaris_bconsole_t)
polaris_use_btrace_fifo(polaris_bconsole_t)
polaris_show_provision_temp_read(polaris_bconsole_t)

corecmd_exec_bin(polaris_bconsole_t)
polaris_bexecute_domtrans(polaris_bconsole_t)

allow polaris_bconsole_t self:process setrlimit;

# handling /var/run/agetty-iosd.pid

file_type polaris_bconsole_var_run_t;
files_pid_file(polaris_bconsole_var_run_t)
manage_files_pattern(polaris_bconsole_t, polaris_bconsole_var_run_t, polaris_bconsole_var_run_t)
files_pid_filetrans(polaris_bconsole_t, polaris_bconsole_var_run_t, file, "agetty-iosd.pid")

# access /dev/ttyS0
term_use_unallocated_ttys(polaris_bconsole_t)

auth_use_nsswitch(polaris_bconsole_t)

###############################################################################
# This block is policies for
# "request platform software console attach switch standby RO" CLI.
# It invokes usr/binos/conf/mcp_console_attach.sh, eventually invoking
# ioucon binary, to telnet to standby.

polaris_utility_domain_template(mcp_console_attach)
polaris_bexecute_domain(polaris_mcp_console_attach_t, polaris_mcp_console_attach_exec_t)
corecmd_exec_bin(polaris_mcp_console_attach_t)
polaris_bexecute_domtrans(polaris_mcp_console_attach_t)
allow polaris_mcp_console_attach_t self:process setpgid;
polaris_chasfs_read(polaris_mcp_console_attach_t)
telnet_use_ptys(polaris_mcp_console_attach_t)

# working with ioucon binary, invoked by usr/binos/conf/mcp_console_attach.sh
polaris_utility_domain_template(ioucon)
polaris_bexecute_domain(polaris_ioucon_t, polaris_ioucon_exec_t)

allow polaris_ioucon_t self:unix_dgram_socket create_socket_perms;
polaris_ioucon_dgram_send(polaris_ioucon_t)
polaris_ioucon_tmp_file_use(polaris_ioucon_t)
telnet_use_ptys(polaris_ioucon_t)

# "test platform hardware eobc ping" invokes eobc_ping.sh
# send sigchld when it is done
gen_require(`
    type ping_t;
`)
allow ping_t polaris_bexecute_t:process sigchld;
polaris_confd_domtrans(polaris_bexecute_t)

# app-hosting connect appid <-> console/session
# Beluga/Meraki container
ifdef(`ms_platform`,`
    polaris_iox_container_domtrans(polaris_bexecute_t)
`)

# Bottlenose/Meraki container
ifdef(`bottlenose_platform`,`
    polaris_iox_container_domtrans(polaris_bexecute_t)
`)

# IOX downloads the application package using network protocol (e.g http)
gen_require(`
    type fifo_var_run_t;
`)
allow polaris_bexecute_t fifo_var_run_t:fifo_file read;

# on vxe platforms with MBRv2/MBRv4/GPTv1/GPTv3 partition layouts
#/config is file system and export_mcp_environment tries to create it anyway
polaris_getattr_disk_config(polaris_bexecute_t)

#########################################################################
# This block is policies for
# "hw-module session <x/y>" CLI.
# It invokes /usr/bin/os/conf/ngio_module_session.sh, eventually invoking
# open64.

polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t)
corecmd_exec_bin(polaris_ngio_module_session_t)
polaris_bexecute_domtrans(polaris_ngio_module_session_t)
term_use_unallocated_ttys(polaris_ngio_module_session_t)
dev_read_sysfs(polaris_ngio_module_session_t)
allow polaris_ngio_module_session_t self:process setsched;
auth_map_passwd(polaris_ngio_module_session_t)
polaris_chasfs_read(polaris_ngio_module_session_t)
polaris_cpld_read(polaris_ngio_module_session_t)
telnet_use_ptys(polaris_ngio_module_session_t)

# work with /tmp files
type polaris_ngio_module_session_tmp_t;
files_tmp_file(polaris_ngio_module_session_tmp_t)
manage_dirs_pattern(polaris_ngio_module_session_t, tmp_t, polaris_ngio_module_session_tmp_t)
manage_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, polaris_ngio_module_session_tmp_t)
manage_fifo_files_pattern(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, polaris_ngio_module_session_tmp_t)
files_tmp_filetrans(polaris_ngio_module_session_t, polaris_ngio_module_session_tmp_t, { file dir })

# CLI: show platform software tech-support
# requires bshell execution
#/bin/bash /usr/binos/conf/bshell.sh -S -P ---- __CMD__ ---- -f
/usr/binos/conf/mcp_tech_support_command_file.txt
gen_require('
    type polaris_bshell_t;
    type polaris_bshell_exec_t;
')
domtrans_pattern(polaris_bexecute_t, polaris_bshell_exec_t, polaris_bshell_t)
# scripts stdin is set by hman and needs write/append access to pipes like pipe:[80159]
polaris_hman_use_fifo(polaris_bshell_t)
# in case of ISR4k show tech input for bshell dynamically created
polaris_tech_support_tmp_read(polaris_bshell_t)

# CLI: show software authenticity running
# this results in hman invoking below command:
#/bin/sh /usr/binos/conf/bexec.sh -c "/usr/bin/code_sign_verify show3 abcd 
" polaris_code_verify_domtrans(polaris_bexecute_t)

# stdin is inherited when bexecute calls fts_client
polaris_fts_client_tmp_manage(polaris_bexecute_t)

# disk space full issue
allow polaris_platform_shell_t self:capability sys_resource;

##############################################################################
# CLI: request platform software sdwan admin-tech

# executes: /bin/sh vconfd_script_show_installerfs.sh
polaris_confd_unix_stream_stdio_use(polaris_bexecute_t)

# executes: bash bshell.sh -S -P ---- __CMD__ ---- -f /tmp/sdwan_tech_support_command_file_out.txt
polaris_confd_unix_stream_stdio_use(polaris_bshell_t)

##############################################################################

# write to /tmp/out_$(date "+%Y%m%d%H%M%S%N") for base version verification on smu install
polaris_install_tmp_write(polaris_bexecute_t)

# Nutella-XE install image
#/bin/bash /usr/binos/conf/brelay.sh -E -f rp 0 16023 -c /usr/binos/conf/install_engine.sh --operation install_commit --isremote
polaris_confd_tmp_use_fifo(polaris_bexecute_t)
awk -v what='^BuildPath: $pkginfo_file' $pkginfo_file ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo

dev_read_rand(polaris_bexecute_t)

#/usr/bin/python3 /usr/binos/conf/issu_client_comp.py compare -b /usr/binos/conf/base_clients.txt -n
/bootflash/conf/installer/current_clients.txt
polaris_disk_install_read(polaris_bexecute_t)

# allow "/usr/binos/conf/module_direct.py" (bexecute_t) to execute
# "/usr/sbin/ethtool" (ifconfig_exec_t) when invoking CLI
# "show platform1 hardware subslot <slot/card> backplane statistics"
sysedomtrans_ifconfig(polaris_bexecute_t)
# Write into pipe created by stack_mgr
# Parent Child Relation - stack_mgr -> mcp_trace_request -> brelay (to relay output to active)
optional_policy(
    polaris_use_stack_mgr_fifo(polaris_bexecute_t)
)

polaris_etc_list(polaris_bexecute_t)
#manage /tmp/existing_rommon_info file
polaris_manage_rommon_info(polaris_capsule_upgrade_t)

#Policies for "upgrade rom-monitor capsule primary switch 1 R0" CLI
#/usr/binos/conf/bexecute.sh -c /usr/binos/conf/cat9k-primary-capsule-upgrade.sh
#cat9k-primary-capsule-upgrade.sh have to run in its own domain
polaris_utility_domain_template(capsule_upgrade)

polaris_bootflash_manage(polaris_capsule_upgrade_t)

type polaris_capsule_upgrade_log_t;
polaris_pfile_type(polaris_capsule_upgrade_log_t)
polaris_capsule_upgrade_log_use(polaris_capsule_upgrade_t)
polaris_bexecute_domain(polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t)
polaris_bexecute_domtrans(polaris_capsule_upgrade_t)
corecmd_exec_bin(polaris_capsule_upgrade_t)
auth_use_nsswitch(polaris_capsule_upgrade_t)
polaris_chasfs_manage(polaris_capsule_upgrade_t)
polaris_cpld_read(polaris_capsule_upgrade_t)
telnet_use_ptys(polaris_capsule_upgrade_t)
polaris_rommon_device_read(polaris_capsule_upgrade_t)
# For "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc
# /usr/binos/conf/bexecute.sh -c /usr/binos/conf/install_engine.sh
# --operation install_c",
# uses unix stream socket created by confd as standard I/O.
polaris_confd_unix_stream_stdio_use(polaris_chvrf_t)

########################################################################
# mcp_dmesg_service
########################################################################
polaris_utility_domain_template(mcp_dmesg)
polaris_bexecute_domain(polaris_mcp_dmesg_t, polaris_mcp_dmesg_exec_t)
polaris_bexecute_domtrans(polaris_mcp_dmesg_t)
dmesg_domtrans(polaris_mcp_dmesg_t)
corecmd_exec_bin(polaris_mcp_dmesg_t)
polaris_smand_use_fifo(polaris_mcp_dmesg_t)
auth_use_nsswitch(polaris_mcp_dmesg_t)
telnet_use_ptys(polaris_mcp_dmesg_t)

# allow creation/access of temporary files like /tmp/sh-thd-1608024622
type polaris_mcp_dmesg_tmp_t;
files_type(polaris_mcp_dmesg_tmp_t)
files_tmp_file(polaris_mcp_dmesg_tmp_t)
files_tmp_filetrans(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, polaris_mcp_dmesg_tmp_t)
fs_getattr_tmpfs(polaris_mcp_dmesg_t)

# allowing reload_fru.sh for doing systemctl list-jobs
systemd_config_generic_services(polaris_bexecute_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/dev/quack -c gen_context(system_u:object_r:polaris_quack_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisquack.fc
No license file was found, but licenses were detected in source scan.
policy_module(polarisdbm, 1.0);

gen_require(
    type polaris_dbm_t;
    '
)

ifdef(`nyquist_platform',
  gen_require(
    type polaris_bt_logger_dbm_mqipc_t;
    '
  )
  # dbm may start first and create this mqipc channel
  polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
  '
)
allow polaris_dbm_t self:capability dac_override;

# port 9090, is it exclusively wnc_mgd port?
corenet_tcp_bind_polaris_wnc_mgd_port(polaris_dbm_t)
allow polaris_dbm_t self:tcp_socket {shutdown};

# working dbm persistent files in /bootflash/dbpersist
type polaris_disk_dbm_t;
polaris_disk_type(polaris_disk_dbm_t)
polaris_tlddbpersist_setup(polaris_dbm_t)

# dbm on active syncs with /bootflash/dbpersist on standby
# related call dbm_persist_binary_cfg_sync_to_standby()
gen_require(
    type rsync_t;
')
rsync_entry_domtrans(polaris_dbm_t, rsync_t)
polaris_tmp_tldb_persist_setup(polaris_dbm_t)
logging_send_syslog_msg(polaris_dbm_t)
corecmd_exec_bin(polaris_dbm_t)
corecmd_exec_shell(polaris_dbm_t)

# dbm needs access to "/flash1/user/.installer/install_issu_state"
polaris_disk_install_read(polaris_dbm_t)

# runs over /usr/bin/rsync
corenet_tcp_connect_rsync_port(polaris_dbm_t)

# tar invocation in dbm code necessitates this permission
auth_map_passwd(polaris_dbm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.te
No license file was found, but licenses were detected in source scan.

#  
# Sep 2020, Sridhar C  
#  
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#  
/tmp/tlsdcl(/.*)? gen_context(system_u:object_r:polaris_tlsdcl_uds_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristlscd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/tmp/fp/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/rp/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)
/tmp/cc/lipc -d gen_context(system_u:object_r:polaris_lipc_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
policy_module(polarsidmincsshdfwd, 1.0);

gen_require(
    type polaris_dmi_ncsshd_fwd_t;
    ')

polaris_btrace_data_manage(polaris_dmi_ncsshd_fwd_t)
polaris_chasfs_manage(polaris_dmi_ncsshd_fwd_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_fwd_t)
polaris_tdlldb_list_dirs(polaris_dmi_ncsshd_fwd_t)
polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)
polaris_flashlib_read(polaris_dmi_ncsshd_fwd_t)
polaris_ripc_sman_ui_serv_connect(polaris_dmi_ncsshd_fwd_t)

allow polaris_dmi_ncsshd_fwd_t self:unix_stream_socket create_stream_socket_perms;

type polaris_dmi_ncsshd_log_t;
files_tmp_file(polaris_dmi_ncsshd_log_t)
manage_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t)
files_tmp_filetrans(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_t, { file sock_file })

logging_send_syslog_msg(polaris_dmi_ncsshd_fwd_t)

polaris_cpld_read(polaris_dmi_ncsshd_fwd_t)

# allow to execute execute_confd_cli.sh under confd domain
polaris_confd_domtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexecute_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexecute(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.te
No license file was found, but licenses were detected in source scan.

#  
#  
# April 2017, Victor Kamensky
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#  

/usr/bin/os/conf/cyan_init\sh -- gen_context(system_u:object_r:polaris_dyncfg_exec_t,s0)
/usr/bin/os/conf/dyncfg_setup\sh -- gen_context(system_u:object_r:polaris_dyncfg_exec_t,s0)

# temp files created by cyan_init.
/tmp/cyan/cyan.log gen_context(system_u:object_r:polaris_dyncfg_log_t,s0)
/tmp/cyan/cyan_runtime.log gen_context(system_u:object_r:polaris_dyncfg_log_t,s0)

/tmp/cyan/(.*)? gen_context(system_u:object_r:polaris_dyncfg_tmp_t,s0)
/tmp/cyan\lock gen_context(system_u:object_r:polaris_dyncfg_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.fc
No license file was found, but licenses were detected in source scan.

#  
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#  

## <summary>Polaris bexecute Policy Rules.</summary>

******************************************************************************
## <summary>
## Execute bexecute in the polaris_bexecute domain.
## </summary>
##<summary>
##<param name="domain">
##Domain allowed to transition.
###</summary>
##</param>
#
interface(`polaris_bexecute_domain`,'
gen_require(
  type polaris_bexecute_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bexecute_exec_t, polaris_bexecute_t)
')

##<summary>
## Allow domain to be started by bexecute with transition into specific service domain.
## </summary>
##<param name="domain">
##Type to be used to run utility.
###</summary>
##</param>
##<param name="entry_point">
##Type of the program to be used as an entry point to this domain.
###</summary>
##</param>
interface(`polaris_bexecute_domain`,'
gen_require(
  type polaris_bexecute_t;
')
domtrans_pattern(polaris_bexecute_t, $2, $1)
')

##<summary>
## Execute mcp_chvrf.sh in the polaris_chvrf domain.
## </summary>
##<param name="domain">
##<summary>
## Domain allowed to transition.

```c
interface('polaris_chvrf_domtrans',
  gen_require(
    type polaris_chvrf_t, polaris_chvrf_exec_t;
  )
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_chvrf_exec_t, polaris_chvrf_t)
')
```

## <summary>
## Execute mcp_chvrf.sh in the caller domain.
## </summary>

```c
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_exec_chvrf',
  gen_require(
    type polaris_chvrf_exec_t;
  )
)

corecmd_search_bin($1)
can_exec($1, polaris_chvrf_exec_t)
')
```

## <summary>
## Execute ngio_module_session.sh in the polaris_ngio_module_session domain.
## </summary>

```c
## <param name="domain">
## Domain allowed to transition.
## </param>

interface('polaris_ngio_module_session_domtrans',
  gen_require(
    type polaris_ngio_module_session_t, polaris_ngio_module_session_exec_t;
  )
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_ngio_module_session_exec_t, polaris_ngio_module_session_t)
')

######################################
## <summary>
##      Allow the specified domain to send signals to any
##      polaris process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_send_signal_to_bexecute',
    gen_require(
        type polaris_bexecute_t;
    ')

    allow $1 polaris_bexecute_t:process signal_perms;
')

######################################
## <summary>
##      Allow manage of polaris_bash_tmp_t.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_bash_tmp_manage',
    gen_require(
        type user_home_dir_t;
        type polaris_bash_tmp_t;
    ')

    manage_dirs_pattern($1, user_home_dir_t, polaris_bash_tmp_t)
    manage_files_pattern($1, polaris_bash_tmp_t, polaris_bash_tmp_t)
')

######################################
## <summary>
##      Execute bexecute in the polaris_bexecute domain.
## </summary>
## <param name="domain"
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_bconsole_domtrans',
gen_require(
type polaris_bconsole_t, polaris_bconsole_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_bconsole_exec_t, polaris_bconsole_t)
')

# Send messages to ioucon unix datagram sockets.
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ioucon_dgram_send',
gen_require(
type polaris_ioucon_t;
')

   allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
')

## Execute cat9k-primary-capsule-upgrade.sh, cat9k-capsule-upgrade.sh in its own domain.
## Domain allowed to transition.
#
interface('polaris_capsule_upgrade_domtrans',
gen_require(
type polaris_capsule_upgrade_t, polaris_capsule_upgrade_exec_t;
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_capsule_upgrade_exec_t, polaris_capsule_upgrade_t)

')

########################################
## <summary>
##     Work(open,create,append,getattr) with /capsule-upgrade.log file
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_capsule_upgrade_log_use',
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_capsule_upgrade_log_t;
')
allow $1 polaris_capsule_upgrade_log_t:filesystem getattr;

filetrans_pattern($1, polaris_disk_bootflash_t, polaris_capsule_upgrade_log_t, file, "capsule-upgrade.log")
manage_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
create_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
getattr_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
append_files_pattern($1, polaris_capsule_upgrade_log_t, polaris_capsule_upgrade_log_t)
allow $1 polaris_capsule_upgrade_log_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisobfl, 1.0);

###################################################
# Obfl policy
###################################################

type polaris_obfl_data_t;
files_type(polaris_obfl_data_t)
gen_require("
    type init_t;
    type default_t;
    type tmp_t;
    attribute domain;
"
)

filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl")
# edison uses obfl0 name
filetrans_pattern(domain, default_t, polaris_obfl_data_t, lnk_file, "obfl0")
# /tmp/obfl
files_tmp_filetrans(domain, polaris_obfl_data_t, dir, "obfl")

# allow obfl data file reside on persistent storage
polaris_pfile_type(polaris_obfl_data_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.te
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#

policy_module(polarisbtlogger, 1.0);

gen_require("
    type polaris_bt_logger_t;
"
)

polaris_btrace_data_manage(polaris_bt_logger_t)
polaris_crft_data_manage(polaris_bt_logger_t)
polaris_chasfs_manage(polaris_bt_logger_t)
polaris_tdlresolve_read(polaris_bt_logger_t)
polaris_tdlldb_list_dirs(polaris_bt_logger_t)
polaris_cpld_read(polaris_bt_logger_t)
polaris_flashlib_read(polaris_bt_logger_t)
polaris_ripc_sman_ui_serv_connect(polaris_bt_logger_t)
polaris_db_tdlldb_dir_use(polaris_bt_logger_t)

# mqipc manual, one that missing in platform tdl file
#*****************************************************************************
#*****************************************************************************
# mq.-bt_logger_dbm

type polaris_bt_logger_dbm_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_dbm_mqipc_t)

# mq.-bt_logger_fman-rp

type polaris_bt_logger_fman_rp_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_fman_rp_mqipc_t)

# mq.-bt_logger_iosd

type polaris_bt_logger_iosd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_iosd_mqipc_t)

# mq.-bt_logger_smd

type polaris_bt_logger_smd_mqipc_t;
polaris_mqipc_type(polaris_bt_logger_smd_mqipc_t)

polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_iosd_mqipc_t, bt_logger_iosd)
polaris_mqipc_create_name(polaris_bt_logger_t, polaris_bt_logger_smd_mqipc_t, bt_logger_smd)

allow polaris_bt_logger_t self:capability { dac_override };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.te

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#
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#
#
## <summary>Polaris gnmib Policy Rules.</summary>

####################################################################
## <summary>
## Create rule for ndbutils file ".l.schema_use.gnmib" under /var/lock/ndbutil
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
interface(`polaris_gnmib_ndbutil_lock`,

gen_require('  
  type polaris_confd_nbdutil_lock_t;  
  type polaris_gnmib_nbdutil_t;  
')  

filetrans_pattern($1, polaris_confd_nbdutil_lock_t, polaris_gnmib_nbdutil_t, file, $2)  
manage_files_pattern($1, polaris_confd_nbdutil_lock_t, polaris_gnmib_nbdutil_t)  
allow $1 polaris_gnmib_nbdutil_t:file { watch watch_reads };  
')  

########################################  
## <summary>  
## Allow reading gnoi image files  
## </summary>  
## <param name="domain">  
## Domain allowed access.  
## </param>  
#  
interface('polaris_gnmib_gnoi_images_read',  
  gen_require('  
    type polaris_gnmib_gnoi_images_t;  
')  
read_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)  
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)  
')  

########################################  
## <summary>  
## Allow manage gnoi image files  
## </summary>  
## <param name="domain">  
## Domain allowed access.  
## </param>  
#  
interface('polaris_gnmib_gnoi_images_manage',  
  gen_require('  
    type polaris_gnmib_gnoi_images_t;  
')  
manage_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)  
mmap_files_pattern($1, polaris_gnmib_gnoi_images_t, polaris_gnmib_gnoi_images_t)  
')
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
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#

policy_module(polaristdldb, 1.0);

########################################################################
# Polaris tdldb (infra/tdllib)
########################################################################
type polaris_tdldb_t;
polaris_tdldb_type(polaris_tdldb_t)

attribute polaris_tdldb;

# any process creating tdldb in /tmp/rp/tdldb should transition into its domain
gen_require(''
    attribute domain;
')
files_tmp_filetrans(domain, polaris_tdldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tdldb_t;
polaris_tdldb_type(polaris_dir_db_tdldb_t)

type polaris_tdldbPersist_t;
polaris_tdldb_type(polaris_tdldbPersist_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.te
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#

policy_module(polarislfts, 1.0);
type polaris_lfts_device_t;
dev_node(polaris_lfts_device_t)

# "ip netns add foo" commands mounts "foo" under "/var/run/netns"
gen_require(')
    type ifconfig_t;
    type var_run_t;
')
allow ifconfig_t var_run_t:dir mounton;

# "ip netns exec 16 sysctl -w net.core.vrfid=16" commands mounts "16" to "/sys"
gen_require(')
    type ifconfig_t;
    type unlabeled_t;
')
allow ifconfig_t unlabeled_t:dir mounton;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.te
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#

/var/tmp/trace/ngx_access.log  gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/ngx_error.log   gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.pid      gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.accept gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.cookie_tbl gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx.lock.login_count gen_context(system_u:object_r:httpd_log_t, s0)
/tmp/nginx_aaa  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_master  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx_session  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

#/tmp base folder for nginx apps to create temporary files.
/tmp/nginx_webui_tmp  -d  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)
/tmp/nginx  -d  gen_context(system_u:object_r:polaris_nginx_tmp_t, s0)

# Polaris WebUI Aireos translator files
/usr/binos/conf/aireos_translate_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_aireos_translator_exec_t, s0)
/var/scripts/python/airesConfigTranslator(/.*)? --
gen_context(system_u:object_r:polaris_aireos_translator_scripts_t,s0)

/var/scripts/webui_install.sh
gen_context(system_u:object_r:polaris_nginx_webui_exec_t, s0)
/usr/binos/conf/webui_upgrade_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_upgrade_exec_t, s0)
/usr/binos/conf/webui_smu_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_upgrade_exec_t, s0)
/usr/binos/conf/ra_trace_webui_helper.sh
gen_context(system_u:object_r:polaris_nginx_webui_trace_filter_exec_t, s0)
/usr/binos/conf/nginx-conf
gen_context(system_u:object_r:httpd_config_t, s0)
/usr/binos/conf/nginx-conf/servers
gen_context(system_u:object_r:httpd_config_t, s0)
/tmp/fts_client
gen_context(system_u:object_r:polaris_fts_client_tmp_t, s0)
/usr/binos/conf/nginx_helper.sh
gen_context(system_u:object_r:polaris_nginx_helper_exec_t, s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnginx.fc
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#
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#
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#

policy_module(polarismdtpubd, 1.0);

    gen_require(
        type polaris_mdt_pubd_t;
    )

    polaris_btrace_data_manage(polaris_mdt_pubd_t)
polaris_chasfs_manage(polaris_mdt_pubd_t)
polaris_tdlresolve_read(polaris_mdt_pubd_t)
polaris_tdlldb_list_dirs(polaris_mdt_pubd_t)
polaris_cpld_read(polaris_mdt_pubd_t)
polaris_lua_read(polaris_mdt_pubd_t)
polaris_flashlib_read(polaris_mdt_pubd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mdt_pubd_t)
polaris_db_tdlldb_dir_use(polaris_mdt_pubd_t)

#For initializing capabilities DB cfg file
    polaris_libeiutil_build_config_directory(polaris_mdt_pubd_t)
polaris_cfg_data_manage(polaris_mdt_pubd_t)
optional_policy(''
  # deals with /dev/shm/confd setup (schema and pid)
  polaris_confid_shm_setup(polaris_mdt_pubd_t)
  # and allow read shared schema
  polaris_confid_shared_schema_read(polaris_mdt_pubd_t)
  # read /proc/confd_pid/exe file
  polaris_confid_read(polaris_mdt_pubd_t)
')

# pubd could be configured to connect any port on DNAC
# please see cndp_setup_tcp_socket function
  polaris_lfts_dev_use(polaris_mdt_pubd_t)
corenets_dev_connect_all_ports(polaris_mdt_pubd_t)

polaris_ndbload_lock_use(polaris_mdt_pubd_t)
corenets_dev_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenets_dev_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenets_dev_bind_all_unreserved_ports(polaris_mdt_pubd_t)

allow polaris_mdt_pubd_t self:capability { dac_override dac_read_search };

# create ndbutil directory under /var/lock
  polaris_confid_ndbutil_create(polaris_mdt_pubd_t)
polaris_ndbutil_lock_template(polaris_mdt_pubd_t, pubd, ".l.schema_use.pubd")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_mdt_pubd_t)

# handling /tmp/rp/.telemetry and /tmp/rp/telemetry
  type polaris_mdt_pubd_tmp_t;
  files_tmp_file(polaris_mdt_pubd_tmp_t);
  files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, "telemetry")
  files_tmp_filetrans(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, dir, ".telemetry")
gen_require(''
    type tmp_t;

  )
manage_dirs_pattern(polaris_mdt_pubd_t, { tmp_t polaris_mdt_pubd_tmp_t }, polaris_mdt_pubd_tmp_t)
manage_files_pattern(polaris_mdt_pubd_t, polaris_mdt_pubd_tmp_t, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
  polaris_confid_shared_schema_watch(polaris_mdt_pubd_t)

# allow grpc library to shutdown socket
allow polaris_mdt_pubd_t self:tcp_socket create_socket_perms;
# allow pubd to access logging facility
logging_send_syslog_msg(polaris_mdt_pubd_t)

# enabling access to /etc/netns and /etc/hosts
polaris_namespace_set_netns_with_etc(polaris_mdt_pubd_t)
gen_require(
    type net_conf_t;
)
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "hosts")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, file, "resolv.conf")
files_etc_filetrans(polaris_mdt_pubd_t, net_conf_t, dir, "netns")

# allow pubd to create, modify, delete system network config files/dir
sysnet_manage_config(polaris_mdt_pubd_t)
sysnet_manage_config_dirs(polaris_mdt_pubd_t)

# allow pubd to connect socket
allow polaris_mdt_pubd_t self:udp_socket connect;

# allow pubd (object net_conf_t) to watch /etc/netns/1/resolv.conf
allow polaris_mdt_pubd_t net_conf_t:{file dir} watch;

# read access to /dev/random
dev_read_rand(polaris_mdt_pubd_t)

#DB persistence
polaris_tldbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tldb_persist_setup(polaris_mdt_pubd_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismdtpubd.te
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#
#
# polarisstackmgr file contexts place holder

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
No license file was found, but licenses were detected in source scan.
policy_module(polaris_periodic, 1.0);

gen_require(
    type polaris_periodic_t;
    )
corecmd_exec_bin(polaris_periodic_t)
corecmd_exec_shell(polaris_periodic_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_periodic_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_periodic_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_lib_so(polaris_periodic_t)

# read /etc/init.d/common-utility-functions
init_read_script_files(polaris_periodic_t)

fs_getattr_all_fs(polaris_periodic_t)

# work with /tmp files
type polaris_periodic_tmp_t;
files_tmp_file(polaris_periodic_tmp_t)
manage_files_pattern(polaris_periodic_t, tmp_t, polaris_periodic_tmp_t)
files_tmp_filetrans(polaris_periodic_t, polaris_periodic_tmp_t, file)

allow polaris_periodic_t self:capability sys_resource;

polaris_btrace_data_manage(polaris_periodic_t)
polaris_chasfs_manage(polaris_periodic_t)
polaris_cpld_read(polaris_periodic_t)
polaris_proc_rmonbifo_read(polaris_periodic_t)
polaris_rmonbifo_tmp_read(polaris_periodic_t)
polaris_boot_tmp_read(polaris_periodic_t)
polaris_read_debug_conf(polaris_periodic_t)
polarisPersistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy(
polaris_ncd_tmp_read(polaris_periodic_t)
')

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)

# "install add file" CLI triggers logger executing "pidof linux_iosd-image" which
# read "/sys/devices/system/cpu/online"
dev_read_sysfs(polaris_periodic_t)

#
#/usr/binos/conf/cleanup.sh do_cleanup does packages and other umount calls
mount_domtrans(polaris_periodic_t)
polaris_sw_data_manage(polaris_periodic_t)

# determine if the installer is executing
domain_read_all_domains_state(polaris_periodic_t)

# access to /cdrom0/ when *ova image is booted during
# first instance of vwlc on ucs server
polaris_removable_read(polaris_periodic_t)

Found in path(s):
*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.te
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#

/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t,s0)

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policy_module(polarisfpm, 1.0);

gen_require(
    type polaris_fpm_t;
    '
    polaris_chasfs_manage(polaris_fpm_t)
    polaris_cpld_read(polaris_fpm_t)
    polaris_flashlib_read(polaris_fpm_t)
    polaris_tdlresolve_read(polaris_fpm_t)
    polaris_ripc_sman_ui_serv_connect(polaris_fpm_t)
    polaris_db_tdldb_dir_use(polaris_fpm_t)
    logging_send_syslog_msg(polaris_fpm_t)
    # vconfd_load_shared_schemas
    polaris_conf_shared_schema_read(polaris_fpm_t)
    
    # /var/run/fpmd socket and pid
    type polaris_fpm_var_run_t;
    files_pid_file(polaris_fpm_var_run_t)
    manage_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
    manage_sock_files_pattern(polaris_fpm_t, polaris_fpm_var_run_t, polaris_fpm_var_run_t)
    files_pid_filetrans(polaris_fpm_t, polaris_fpm_var_run_t, { file sock_file })
    polaris_ttm_var_sock_write(polaris_fpm_t)
    
    # fp_scaling_init calls posix_sysconf
    dev_read_sysfs(polaris_fpm_t)
    
    # PLEASE LOOK AT ME: write access to /boot/hugepage.conf
    # which on ultra translates into /varied/hugepage.conf access
    # But no code in polaris uses it
    polaris_disk_varied_manage(polaris_fpm_t)

   */tmp/microcode_update(\.*).?\s+gen_context\(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t:s0\)
files_manage_boot_files(polaris_fpm_t)

polaris_cedge_tmpfs_manage(polaris_fpm_t)

polaris_fmrp2fpm_mqipc_use(polaris_fpm_t)

# manually create mqipc channel: missing in TDL
type polaris_fpm2fmrp_mqipc_t;
polaris_mqipc_type(polaris_fpm2fmrp_mqipc_t)
polaris_mqipc_create_name(polaris_fpm_t, polaris_fpm2fmrp_mqipc_t, fpm2fmrp_vulcan_mqipc)

# fp_scaling_read_core_count accesses cgroups file at
# /sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_fpm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.te

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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
dnl divert(-1)

include('polaris_process.m4')
include('polaris_process_te.m4')

include('polaris_ipc_mqipc.m4')
include('polaris_ipc_mqipc_te.m4')

include('polaris_ipc_ripc.m4')
include('polaris_ipc_ripc_te.m4')

include('polaris_ipc_lipc.m4')
include('polaris_ipc_lipc_te.m4')

include('polaris_max_scope.m4')

Stub out non existent one
define('polaris_websocket_service_server',``)
define('polaris_cipc_service_server',``)

include('polaris_max_scope.m4')

divert(0)dnl

#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(polarisplatformipcauto, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
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## <summary>Polaris polarisbhytoolsd Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.if
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#

/tmp/tdlresolve_tmp(/.*)?                gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/tmp/tdlresolve(/.*)?                    gen_context(system_u:object_r:polaris_tdlresolve_t,s0)
/usr/binos/conf/global.service.conf   -- gen_context(system_u:object_r:polaris_global_service_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.fc
No license file was found, but licenses were detected in source scan.

#  # February 2020, Victor Kamensky  
#  
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#

## <summary>Polaris ttm Policy Rules.</summary>
## Write ttm /var/run socket file
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_ttm_var_sock_write',
    gen_require("
        type polaris_ttm_t;
        type polaris_ttm_var_run_t;
        type var_run_t;
    ")
    write_sock_files_pattern($1, var_run_t, polaris_ttm_var_run_t)
    allow $1 polaris_ttm_t:unix_stream_socket { connectto };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.if
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
## <summary>Polaris CYAN Policy Rules.</summary>

####################################################################
## <summary>
## Execute dyncfg in the dyncfg domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_dyncfg_domtrans',
    gen_require("
        type polaris_dyncfg_t, polaris_dyncfg_exec_t;
    ")
    corecmd_search_bin($1)
domtrans_pattern($1, polaris_dyncfg_exec_t, polaris_dyncfg_t)
### <summary>
### Make the specified domain able to read tmp file created by
cyan_init.sh like /tmp/cyan mono cdb
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

```c
interface(`polaris_dyncfg_tmp_read',`
  gen_require(`
    type polaris_dyncfg_tmp_t;
    type tmp_t;
  ')

  read_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
  read_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
  allow $1 polaris_dyncfg_tmp_t:file map;

  # need by shell that is called from luajit script
  auth_read_passwd($1)
')
```

### <summary>
### Make the specified domain able to manage tmp file created by
cyan_init.sh like /tmp/cyan.lock
### </summary>
### <param name="type">
### Domain allowed access.
### </param>

```c
interface(`polaris_dyncfg_tmp_manage',`
  gen_require(`
    type polaris_dyncfg_tmp_t;
    type tmp_t;
  ')

  manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
  manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)
  allow $1 polaris_dyncfg_tmp_t:file map;
```

### <summary>
### Execute /tmp/dyncfg/N initialization within given domain.
### 
### Effectively one need this if it needs to run dyncfg_db_run_init_script,
### dyncfg_db_init functions within domain context.
### 
### Note it involves lua execution that leads to execmem. Also lua script
### may execve shell and some other simple bin processes like mkdir or ln.
### </summary>
### <param name="type">
### Domain allowed access.
### </param>
#
interface('polaris_dyncfg_setup',
  gen_require(
    type polaris_dyncfg_tmp_t;
    type tmp_t;
  
)  
files_tmp_filetrans($1, polaris_dyncfg_tmp_t, dir, "cyan")  
manage_dirs_pattern($1, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)  
manage_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)  
manage_lnk_files_pattern($1, { tmp_t polaris_dyncfg_tmp_t }, polaris_dyncfg_tmp_t)  
allow $1 polaris_dyncfg_tmp_t:file map;
#
# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow $1 self:process execmem;
#
# LOOK AT ME lua initialization code still uses system function call do some
# trivial things like mkdir. But because of that we need to grant shell and
# bin access to all callers of
corecmd_exec_shell($1)  
corecmd_exec_bin($1)
#
# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(
  gen_require(
    type polaris_wncmgrd_exec_t;
    type bin_t;
  
)  
read_files_pattern($1, bin_t, polaris_wncmgrd_exec_t)
)
lua code reads /tmp/sw/boot/rmonbifo/boardtype
polaris_rmonbifo_tmp_read($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.if
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#  
# March 2017, Victor Kamensky  
#  
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#  

policy_module(polariscppcp, 1.0);

gen_require('  
  type polaris_cpp_cp_t;
')

polaris_btrace_data_manage(polaris_cpp_cp_t)
polaris_crft_data_manage(polaris_cpp_cp_t)
polaris_chasfs_manage(polaris_cpp_cp_t)
polaris_tdlresolve_read(polaris_cpp_cp_t)
polaris_tdlldb_list_dirs(polaris_cpp_cp_t)
polaris_cpld_read(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_cp_t)
polaris_db_tdlldb_dir_use(polaris_cpp_cp_t)
polaris_cpp_process(polaris_cpp_cp_t)
polaris_cpp_dev_use(polaris_cpp_cp_t)
polaris_icc_broken_relocations(polaris_cpp_cp_t)
logging_send_syslog_msg(polaris_cpp_cp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_cp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family','
polaris_dev_mem_use(polaris_cpp_cp_t)
')
# cpp_palci_wallclock_time_ticks function reads /var/lock/subsys/sntp.offset
files_read_all_locks(polaris_cpp_cp_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_cp_t)

optional_policy(
    polaris_spa_dev_use(polaris_cpp_cp_t)
)

# handle geodb file access
polaris_geodb_files_manage(polaris_cpp_cp_t)

optional_policy(
    polaris_cbdma_dev_use(polaris_cpp_cp_t)
)

polaris_hkp_dev_use(polaris_cpp_cp_t)
# Access /dev/astro
polaris_astro_dev_use(polaris_cpp_cp_t)
polaris_vega_dev_use(polaris_cpp_cp_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_cp_t)
polaris_cpld_dev_use(polaris_cpp_cp_t)
polaris_flashlib_read(polaris_cpp_cp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.te
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
#
policy_module(polariscppstats, 1.0);

gen_require(
    type polaris_cpp_stats_t;
')

polaris_btrace_data_manage(polaris_cpp_stats_t)
polaris_crft_data_manage(polaris_cpp_stats_t)
polaris_chasfs_manage(polaris_cpp_stats_t)
polaris_tldresolve_read(polaris_cpp_stats_t)
polaris_tlddb_list_dirs(polaris_cpp_stats_t)
polaris_cpld_read(polaris_cpp_stats_t)
polaris_flashlib_read(polaris_cpp_stats_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_stats_t)

polaris_cpp_tmp_files_use(polaris_cpp_stats_t)
# works with /dev/cpp_dev_info, /dev/cpp and /dev/cpp_kipc
polaris_cpp_dev_use(polaris_cpp_stats_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_cpp_stats_t)

polaris_icc_broken_relocations(polaris_cpp_stats_t)

# get attributes of /dev/shm from glibc where_is_shmfs function
fs_getattr_tmpfs(polaris_cpp_stats_t)

optional_policy('
    polaris_cbdma_dev_use(polaris_cpp_stats_t)
')
polaris_cpp_tmpfs_manage(polaris_cpp_stats_t)
polaris_cpld_dev_use(polaris_cpp_stats_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppstats.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarislm, 1.0);

gen_require('    type polaris_lm_t;
')
polaris_btrace_data_manage(polaris_lm_t)
polaris_crft_data_manage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_tdlldb_list_dirs(polaris_lm_t)
polaris_cpld_read(polaris_lm_t)
polaris_flashlib_read(polaris_lm_t)

polaris_ripc_sman_ui_serv_connect(polaris_lm_t)

allow polaris_lm_t self:capability { dac_override };
# allow to read /proc/mtd
kernel_read_system_state(polaris_lm_t)

# work with /tmp files (/tmp/iosd_level)
type polaris_lm_tmp_t;
files_tmp_file(polaris_lm_tmp_t)
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "iosd_level")
files_tmp_filetrans(polaris_lm_t, polaris_lm_tmp_t, file, "stack_apcount")
manage_files_pattern(polaris_lm_t, tmp_t, polaris_lm_tmp_t)

polaris_dyncfg_tmp_read(polaris_lm_t)
polaris_disk_license_manage(polaris_lm_t)
polaris_disk_csl_manage(polaris_lm_t)

logging_send_syslog_msg(polaris_lm_t)
polaris_lua_read(polaris_lm_t)
# permission to access /tmp/rp/lipc/lmanrtu_stackrtu_socket
# polaris_lm_t policy
allow polaris_lm_t self:unix_stream_socket connectto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Victor Kamensky
#
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#

/usr/binos/conf/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarislipc, 1.0);

###############################################################################
# LIPC policy
###############################################################################
gen_require(' type polaris_pvp_t;
    attribute polaris_extended_domain;
')

type polaris_lipc_t;
files_type(polaris_lipc_t)

files_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")
init_script_tmp_filetrans(polaris_extended_domain, polaris_lipc_t, dir, "lipc")

# in some cases pvp.sh creates lipc tmp directory it needs permissions for that
manage_dirs_pattern(polaris_pvp_t, tmp_t, polaris_lipc_t)

gen_require(' attribute polaris_extended_domain;
    type polaris_pvp_tmp_t;
')
filetrans_pattern(polaris_extended_domain, polaris_pvp_tmp_t, polaris_lipc_t, dir, "lipc")

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.te
No license file was found, but licenses were detected in source scan.

# # September 2018, Anubha Balani
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#

'### <summary>Polaris Memory Service Policy Rules.</summary>

###############################################################################
# Polaris memory: libmaroon and such
###############################################################################

'### <summary>
### Allow the specified domain to check existence of
### /lib/systemd/system/ksm.service file. Effectively checking
### whether KSM kernel feature is enabled on device or not.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_ksm_run_check',
    gen_require( 
        type systemd_unit_file_t;
    ')

gattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)
')

########################################################################
### <summary>
### Manage temporary maroon files
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
interface('polaris_maroon_data_manage_all',
    gen_require( 
        attribute polaris_maroon_data_domain;
        type polaris_maroon_base_t;
    ')

manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_data_domain)
allow $1 polaris_maroon_data_domain:file map;

# manage temporary files in maroon_stats directory
manage_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)
')

########################################################################
### <summary>
### Make the specified type usable as maroon data file type.
### </summary>
### <param name="type">
### <summary>
### Type to be used for files.
### </summary>
### </param>
# interface('polaris_maroon_data_type',
    files_type($1)
    gen_require(
        attribute polaris_maroon_data_domain;
    )
    typeattribute $1 polaris_maroon_data_domain;
)

#######################################
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="file_type">
##      <summary>
##      File type of maroon that corresponds to given domain.
##      </summary>
## </param>
## </rolebase/>
#
interface('polaris_maroon_data_client',
    gen_require(
        type polaris_maroon_base_t;
    )

    manage_files_pattern($1, polaris_maroon_base_t, $2) 
    allow $1 $2:file map;
    filetrans_pattern($1, polaris_maroon_base_t, $2, file)
)

#######################################
## <summary>
##      Process to manage its own maroon files
## </summary>
## <param name="domain_stem">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_maroon_data_client_template',
    gen_require('}
type polaris_maroon_base_t;
')

type polaris_$1_maroon_t;
polaris_maroon_data_type(polaris_$1_maroon_t)

polaris_maroon_data_client(polaris_$1_t, polaris_$1_maroon_t)
')

########################################################################
## <summary>
##     Getattr of polaris_zram_device_t files
## </summary>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
## <rolebase/>
#
interface(`polaris_zram_getattr',`
   gen_require(`
     type device_t;
     type polaris_zram_device_t;
   `)
   getattr_blk_files_pattern($1, device_t, polaris_zram_device_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismemory.if
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#
# March 2017, Victor Kamensky
#
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#

/bootflash/dbpersist(/.*)?    gen_context(system_u:object_r:polaris_disk_dbm_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbm.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
policy_module(polarisreflector, 1.0);

polaris_process_domain_template(reflector)

corecmd_exec_bin(polaris_reflector_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_reflector_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_reflector_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_reflector_t)

# read /etc/hosts file
sysnet_read_config(polaris_reflector_t)

# work with /tmp files

type polaris_reflector_tmp_t;
files_tmp_file(polaris_reflector_tmp_t)
manage_dirs_pattern(polaris_reflector_t, tmp_t, polaris_reflector_tmp_t)
manage_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
manage_fifo_files_pattern(polaris_reflector_t, polaris_reflector_tmp_t, polaris_reflector_tmp_t)
files_tmp_filetrans(polaris_reflector_t, polaris_reflector_tmp_t, { file dir })

# reflector can work with droputil tmp files
polaris_droputil_manage_tmp_files(polaris_reflector_t)

#rsync_exec(polaris_reflector_t)
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polaris_reflector_t, rsync_t)
allow rsync_t polaris_reflector_t:process sigchld;
# upon exec rsync inherits reflector.sh stdout/stderr which are
# polaris_reflector_t fifo_files
allow rsync_t polaris_reflector_t:fifo_file write;

allow polaris_reflector_t self:capability { sys_resource dac_override };
allow polaris_reflector_t self:process setpgid;

polaris_btrace_data_manage(polaris_reflector_t)
polaris_cpld_read(polaris_reflector_t)
polaris_chasfs_manage(polaris_reflector_t)
polaris_boot_tmp_read(polaris_reflector_t)
polaris_read_debug_conf(polaris_reflector_t)
polaris_disk_crashinfo_getattr(polaris_reflector_t)
polaris_rmonbifo_tmp_read(polaris_reflector_t)

# watch over /tmp/rp/dropbox
polaris_droputil_tmp_watch(polaris_reflector_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
optional_policy(
    polaris_ncd_tmp_read(polaris_reflector_t)
)

# 'rm -rf /tmp/rp/reflector'
f$s_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarispman, 1.0);

polaris_process_domain_template(pman)

# reassess all permissions granted here for new pman
# - do we clone this domain to pmanc, or replace it?

gen_require(
    type polaris_psvp_t;
        type polaris_pvp_t;
    )

corecmd_exec_bin(polaris_pman_t)
corecmd_exec_shell(polaris_pman_t)
# can execute process in polaris domain
polaris_exec(polaris_pman_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. Le it need quite a bit of priviledges
domain_read_all_domains_state(polaris_pman_t)

# pman wants to write to /proc/<pid>/oom_adj of each process
# it started. Now oom_adj is under label of process that owns
# it, so for now let pman to be able to write into any file
# in polaris_domain. Latter try to clean it up by transitioning
# oom_adj into separate domain?
gen_require(
    attribute polaris_domain;
    )
manage_files_pattern(polaris_pman_t, polaris_domain, polaris_domain)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_pman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pman_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_pman_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_pman_t)

# read/write cgroups files
fs_rw_cgroup_files(polaris_pman_t)

dmidecode_domtrans(polaris_pman_t)

allow polaris_pman_t self:capability { sys_nice sys_resource dac_override sys_rawio sys_admin };

polaris_btrace_data_manage(polaris_pman_t)
polaris_chasfs_manage(polaris_pman_t)
polaris_cpld_read(polaris_pman_t)
ifdef(\'ngwc_family\',
polaris_cpld_write(polaris_pman_t)
')
polaris_proc_rmonbifo_read(polaris_pman_t)
polaris_rmonbifo_tmp_read(polaris_pman_t)
polaris_boot_tmp_read(polaris_pman_t)
polaris_read_debug_conf(polaris_pman_t)
polaris_disk_crashinfo_getattr(polaris_pman_t)

# work with /tmp files
type polaris_pman_tmp_t;
files_tmp_file(polaris_pman_tmp_t)
manage_dirs_pattern(polaris_pman_t, tmp_t, polaris_pman_tmp_t)
manage_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
manage_fifo_files_pattern(polaris_pman_t, polaris_pman_tmp_t, polaris_pman_tmp_t)
files_tmp_filetrans(polaris_pman_t, polaris_pman_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "process")
filetrans_pattern(domain, tmp_t, polaris_pman_tmp_t, dir, "pman_ports")

# pcohort reads files in /tmp/rp/process directory
gen_require(
    attribute polaris_extended_domain;
)
read_files_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)
list_dirs_pattern(polaris_extended_domain, polaris_pman_tmp_t, polaris_pman_tmp_t)

# bash needs setgid in its make_child function
allow polaris_pman_t self:process { setgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsession };

# pman call renice utility to change process nice level
allow polaris_pman_t self:process { setsched };

# pman needs to work with pvp tmp files
polaris_pvp_manage_tmp_files(polaris_pman_t)

# on ultra pman waits for /tmp/cpp_ifdev_rep pipes appearence before
# proceeding further before it starts iosd
optional_policy(
    polaris_cpp_tmp_ifdev_getattr(polaris_pman_t)
)

# /tmp/vxe_ucode_image created by some systemd units and accessed
# by pman, lets transition it into polaris_pman_tmp_t domain
gen_require(
    type initrc_t;
    type init_t;
)
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "vxe_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "wlce_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "utah_ucode_image")
files_tmp_filetrans( { initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_ucode_image")

# pman needs to manage cgroups membership of dofferent processes
# See move_to_cgroup pman function. It needs setsched permission
domain_setpriority_all_domains(polaris_pman_t)

# pman.sh can call logger command
logging_send_syslog_msg(polaris_pman_t)

# pman can receive signals from any polaris domain process
polaris_receive_signal_from_domain(polaris_pman_t)

# pman.sh calls pidof command (similar to ps)
# pidof needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_pman_t)
# pidof commands wants sys_ptrace
allow polaris_pman_t self:capability sys_ptrace;

# pman can send signal to anything
domain_signal_all_domains(polaris_pman_t)

# pmanlite can getpgid to its child group processes
domain_getpgid_all_domains(polaris_pman_t)

# pmanlite uses killpg(<child pid>,SIGNULL) to test its child processes
domain_signal_all_domains(polaris_pman_t)

term_use_unallocated_ttys(polaris_pman_t)

optional_policy('polaris_repm_tmp_manage(polaris_pman_t)
')

optional_policy('polaris_ncd_tmp_read(polaris_pman_t)
')

# runs find over /proc
kernel_getattr_proc(polaris_pman_t)

# PLEASE LOOK AT ME: pman removes /tmp/subpkg directory after CSCvm14562 commit
# back out and change properly after CSCvm51181 is fixed
polaris_install_tmp_manage(polaris_pman_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_tmpfs(polaris_pman_t)
fs_getattr_xattr_fs(polaris_pman_t)

# domain for gdbserver started by pman
polaris_utility_domain_template(gdb)

domtrans_pattern(polaris_pman_t, polaris_gdb_exec_t, polaris_gdb_t)

# pman starts gdbserver with stdout pointing to btrace fifo
polaris_use_btrace_fifo(polaris_gdb_t)
# gdbserver reads /proc/$pid/exe of a process it gets attached to.
# Allow to read state of all processes for now.
domain_read_all_domains_state(polaris_gdb_t)

# allow gdbserver to bind to all unreserved ports for now
corenet_tcp_bind_unreserved_ports(polaris_gdb_t)
corenet_tcp_bind_generic_node(polaris_gdb_t)

allow polaris_gdb_t self:process { ptrace setpgid };
allow polaris_gdb_t self:tcp_socket { accept bind create getattr listen setopt };

# pman update iosxe_control_processes/iosxe_mgmt_processes/tasks
fs_manage_cgroup_dirs(polaris_pman_t)
fs_manage_cgroup_files(polaris_pman_t)

optional_policy('
container_runtime_domtrans(polaris_pman_t)
')

# pman calls show_version for dockerd executable
optional_policy('
polaris_container_runtime_show_version(polaris_pman_t)
')

# needs to access nsfs file during killall invocation
fs_read_nsfs_files(polaris_pman_t)

# runs over /proc/<pid>/net/arp
kernel_read_network_state(polaris_pman_t)

# runs over /proc/<pid>/net/stat
kernel_read_network_state_symlinks(polaris_pman_t)

# runs over /proc/<pid>/net/rpc
kernel_read_rpc_sysctls(polaris_pman_t)

# LOOK AT ME: why pman doing it
# from mgmt/confd/confd/src/confd_startup_sh_post_exit.sh archive_errlog function
polaris_btrace_persistent_data_manage(polaris_pman_t)
polaris_confd_log_manage(polaris_pman_t)
allow polaris_pman_t self:process setfscreate;

# access /bootflash/installer/install_issu_state
polaris_disk_install_read(polaris_pman_t)

# /usr/bin/os/conf/umbrella_init.sh that runs under pman
# copies into /bootflash/ios_core.p7b
polaris_bootflash_manage(polaris_pman_t)
optional_policy(')
  # we may write bits to the exiting_bays file in /proc
  polaris_rw_exiting_bays(polaris_pman_t)
')

ifdef(`ngwc_family',`
  # linux_iosd_image_post_exit.sh restores the slot-based address
  # for the management ethernet should be restored on dual RP system.
  polaris_chvrf_domtrans(polaris_pman_t)
  sysnet_domtrans_ifconfig(polaris_pman_t)

  # For use of flashutil preparing for reload
  polaris_flashlib_read(polaris_pman_t)
  polaris_flashlib_write(polaris_pman_t)
')

#elif ifdef(`nyquist_platform',`
  polaris_db_tdl_db_ewlc_operational_use(polaris_pman_t)
  polaris_db_tdl_db_rogued_use(polaris_pman_t)
  polaris_db_tdl_db_ewlc_config_use(polaris_pman_t)
  polaris_db_tdl_db_wstatsd_use(polaris_pman_t)
  polaris_db_tdl_db_client_global_use(polaris_pman_t)
')

# delete /tmp/booted from linux_iosd_image_post_exit.sh when iosd goes down.
# For example: preparing for reload.
  gen_require(')
      type polaris_iosd_tmp_files_t;
  ')
  allow polaris_pman_t polaris_iosd_tmp_files_t:file { delete_file_perms open };

# Upon exit of a process, pman needs to remove sai directory and files
# associated with the process
  polaris_pvp_delete_sai_files(polaris_pman_t)
# rsync port want to establish Tcp connection
# runs over /usr/bin/rsync
  corenet_tcp_connect_rsync_port(polaris_pman_t)
  rsync_entry_type(polaris_pman_t)
ifdef(`crankshaft_family',`

# Provide process signal perms to pman.
polaris_caf_proc_signal_perms(polaris_pman_t)

‘

# open connections from processes managed by pman can leak. The selinux
# errors associated with these typically come from a forked and renamed
# elastic process like wncd_0. During process forking/startup, node
# binds may cause denials as they are brought up by pman
ifdef(`ngwc_family',`
coreneth_tcp_bind_generic_node(polaris_pman_t)
coreneth_udp_bind_generic_node(polaris_pman_t)
coreneth_tcp_connect_lisp_cons_control_port(polaris_pman_t)

‘

# pman can stop itself on reload
allow polaris_pman_t self:capability kill;

# For pmanlite, allow pman's grand-children rsync to be able to operate on pipe created by pman.
gen_require(`
   type rsync_t;

‘)
polaris_use_pman_fifo(rsync_t)

ifdef(`sumatra_platform',`

# Allow pman to execute cman_fp in the polaris_cm_fp_t domain
polaris_cm_fp_domtrans(polaris_pman_t)

‘)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispman.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(fp, "elastic", PROC_ODM, 0)

max_elastic_map_set(rp, "elastic", PROC_WNCD, 0)
max_elastic_map_set(cc, "elastic", PROC_WNCD, 0)
max_elastic_map_set(fp, "elastic", PROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/nyquistmaps.m4
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#
# Aug 2020, Sridhar
#
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#

### <summary>Polaris xcopy Policy Rules.</summary>

########################################################
### <summary>
### Execute xcopy related scripts in its own domain.
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>
#
# interface('polaris_xcopy_script_domtrans',
  gen_require(
    type polaris_xcopy_script_t, polaris_xcopy_script_exec_t;
    
  )
#

domtrans_pattern($1, polaris_xcopy_script_exec_t, polaris_xcopy_script_t)
')
#
########################################################
### <summary>
### xcopy progress temp file access
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>
#

interface('polaris_xcopy_tmp_manage',
    gen_require('type polaris_xcopy_tmp_t;
    ')
    manage_dirs_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
    manage_files_pattern($1,polaris_xcopy_tmp_t, polaris_xcopy_tmp_t)
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.if
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#

## <summary>Polaris dmi_ncsshd_mgmt Policy Rules.</summary>

########################################
## <summary>
##      Read polaris_ncsshd_keys_t files, effectively access
##  /tmp/.ncsshd_authorized_keys created by psd and read by ncsshd
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ncsshd_authorized_keys_read',
    gen_require('type polaris_ncsshd_keys_t;
    ')
    read_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    list_dirs_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
    ')

########################################
## <summary>
##      Watch /var/run/netns and list contents
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_watch_netns',
  gen_require('type ifconfig_var_run_t;
')
list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
allow $1 ifconfig_var_run_t:dir watch;
')

### <summary>
## Manage polaris_pttcd_tmp_t files, effectively files
## under /tmp/tmppub/interceptor
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
### </summary>
### </param>
#
interface('polaris_interceptor_manage',
  gen_require('type polaris_pttcd_tmp_t;
')
manage_files_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
manage_dirs_pattern($1, polaris_pttcd_tmp_t, polaris_pttcd_tmp_t)
allow $1 polaris_pttcd_tmp_t:{ dir file } watch;
')

### <summary>
## Execute a domain transition to run ncsshd polaris process.
### </summary>
### <param name="domain">
### <summary>
## Domain allowed to transition.
### </summary>
### </param>
#
interface('polaris_ncsshd_mgmt_domtrans',
  gen_require('type polaris_dmi_ncsshd_mgmt_t, polaris_dmi_ncsshd_mgmt_exec_t;
')
domtrans_pattern($1, polaris_dmi_ncsshd_mgmt_exec_t, polaris_dmi_ncsshd_mgmt_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgnt.if
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#
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#

## <summary>Polaris cm_rp Policy Rules.</summary>

EXECUTE cmand_fp in the polaris_cm_fp_t domain.
  
  Domain allowed to transition.

interface('polaris_cm_rp_domtrans',
  gen_require(''
polaris_cm_rp_t, polaris_cm_rp_exec_t;
')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cm_rp_exec_t, polaris_cm_rp_t)
')

## <summary>Write into fifo file created by cmrp, typical case when
## cmrp starts script under popen.
##
## Domain allowed access.
##</summary>
##<param name="domain">
##<summary>
## Domain allowed access.
##</summary>
##</param>
##<rolecap/>
interface('polaris_cmrp_use_fifo',
  gen_require(''
    type polaris_cm_rp_t;
  ')
)
write_fifo_files_pattern($1, polaris_cm_rp_t, polaris_cm_rp_t)
')

#######################################
## <summary>
##      Write/read /tmp/pfu_oirtime.lock file
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
##
# interface(`polaris_cm_rp_tmp_manage',`
   gen_require(`
     type polaris_cm_rp_tmp_t;
     type tmp_t;
   `)
   manage_dirs_pattern($1, { tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
   manage_files_pattern($1,{ tmp_t polaris_cm_rp_tmp_t }, polaris_cm_rp_tmp_t)
')

#######################################
## <summary>
##      Setup policies to access dir and file
##       /vol/harddisk/.inv/inv_log_file
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
##
# interface(`polaris_cm_rp_inv_log_setup',`
   gen_require(`
     type polaris_cm_rp_inv_log_file_t;
     type polaris_disk_harddisk_t;
     type polaris_disk_bootflash_t;
   `)
   filetrans_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t, dir, ".inv")
   # allow access to /vol/harddisk/.inv
   manage_dirs_pattern($1, {polaris_disk_harddisk_t polaris_disk_bootflash_t}, polaris_cm_rp_inv_log_file_t)
   # allow access to /vol/harddisk/inv/inv_log_file
   manage_files_pattern($1,{polaris_cm_rp_inv_log_file_t}, polaris_cm_rp_inv_log_file_t)
')
### <summary>
### Write into /tmp/codesign.txt file created by cm_rp
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </param>

interface('polaris_cm rp tmp write',
    gen_require(''
        type polaris_cm rp tmp t;
    ')
    write_files_pattern($1, [ tmp_t polaris_cm rp tmp t ], polaris_cm rp tmp t)
')

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
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#
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#
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#

policy_module(polarisvdaemon, 1.0);

    gen_require(''
        type polaris_vdaemon_t;
    ')
    polaris_chasfs_manage(polaris_vdaemon_t)
    # read and write /bootflash/sdwan/etc/vdaemon_gen_id
    polaris_bootflash_manage(polaris_vdaemon_t)
    polaris_tdlresolve_read(polaris_vdaemon_t)
    polaris_cpld_read(polaris_vdaemon_t)
    polaris_flashlib_read(polaris_vdaemon_t)
    polaris_ripc_sman_ui_serv_connect(polaris_vdaemon_t)
    polaris_db_tdldb_dir_use(polaris_vdaemon_t)
    logging_send_syslog_msg(polaris_vdaemon_t)
    # vconfd_load_shared_schemas
    polaris_confd_shared_schema_read(polaris_vdaemon_t)
# manage /etc/viptela
polaris_cedge_etc_manage(polaris_vdaemon_t)

polaris_cedge_reset_ns(polaris_vdaemon_t)

# calls ifconfig for tun_0_0 interface
sysnet_domtrans_ifconfig(polaris_vdaemon_t)

# calls dmidecode get system serial number
dmidecode_domtrans(polaris_vdaemon_t)

# /var/run/vdaemon socket and pid
type polaris_vdaemon_var_run_t;
files_pid_file(polaris_vdaemon_var_run_t)
manage_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
manage_sock_files_pattern(polaris_vdaemon_t, polaris_vdaemon_var_run_t, polaris_vdaemon_var_run_t)
files_pid_filetrans(polaris_vdaemon_t, polaris_vdaemon_var_run_t, { file sock_file })

polaris_ttm_var_sock_write(polaris_vdaemon_t)

# generate_instance_uuid reads /sys/devices/virtual/dmi/id/product_uuid
deve_read_sysfs(polaris_vdaemon_t)

# vip_util_set_fd_limits calls setrlimit
allow polaris_vdaemon_t self:process { setrlimit setpgid };
allow polaris_vdaemon_t self:capability { dac_override fowner sys_resource };

# vdaemon_init_tunn_intf initialize tun_0_0 in vrf 1
allow polaris_vdaemon_t self:tun_socket create;
corenet_rw_tun_tap_dev(polaris_vdaemon_t)

polaris_persistent_watch(polaris_vdaemon_t)
# from vdaemon_misc.c vdaemon_init_inotify function
polaris_cedge_etc_watch(polaris_vdaemon_t)

# set_netns_with_etc mounts on / and /sys
# set_netns_with_etc opens /etc/netns/1 dir
polaris_namespace_set_netns_with_etc(polaris_vdaemon_t)
# DNS thread complains about tmp_t mounton
# on /sys when switching namespace
gen_require(
    type tmp_t;
)'
allow polaris_vdaemon_t tmp_t:dir mounton;

# vip_util_set_ns opens /var/run/netns/*
polaris_cedge_set_ns(polaris_vdaemon_t)
# vip_dns_process_request switches namespace from linux n/w namespace to
# original mount namespace
allow polaris_vdaemon_t self:capability { net_admin sys_chroot };
allow polaris_vdaemon_t self:udp_socket { bind connect getattr getoptopt setopt shutdown };

# control linux routes vip_route_delete and vdaemon_setup_system_ip_route
allow polaris_vdaemon_t self:netlink_route_socket { bind create getattr nlmsg_read nlmsg_write };

# binds to vbond udp ports
corenet_udp_bind_generic_node(polaris_vdaemon_t)
corenet_udp_bind_polaris_vbond_port(polaris_vdaemon_t)

# though default ports exist, users can configure the tcp ports in vManage and vSmart
corenet_tcp_connect_all_ports(polaris_vdaemon_t)

# vbond_proc_hello executes VIP_CDB_BACKUP_SCRIPT
polaris_confd_domtrans(polaris_vdaemon_t)
# VIP_CDB_BACKUP_SCRIPT makes use of /etc/confd/confd_ipc_secret
auth_map_passwd(polaris_vdaemon_t)

# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_ncsshd_keys_manage(polaris_vdaemon_t)
# vdaemon_write_authorized_keys_to_ncsshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_confd_etc_read(polaris_vdaemon_t)

# generate_or_parse_uuid() invokes uuid_generate that needs read on
# random-number generator devices (e.g., /dev/random).
dev_read_rand(polaris_vdaemon_t)

# vdaemon_exec_iptables() is invoked by vdaemon all over the place
iptables_domtrans(polaris_vdaemon_t)

allow polaris_vdaemon_t self:capability net_raw;
allow polaris_vdaemon_t self:rawip_socket create_socket_perms;

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.te
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#

### <summary>Polaris fman rp Policy Rules.</summary>
<summary>
Manage mqipc fmrp2fpm shared memory file in /dev/shm directory
</summary>

<param name="domain">
Domain allowed access.
</param>

interface(`polaris_fmrp2fpm_mqipc_use',`
gen_require(`
type polaris_fmrp2fpm_mqipc_t;
')
polaris_mqipc_use($1, polaris_fmrp2fpm_mqipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.if

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dnl
May 2019

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dnl
dnl confined and permissive domain maps
divert(-1)
define(`permissive_domain', `defn(format(``permissive_domain[%s]", `$1'"')))
define(`permissive_domain_set', `define(format(``permissive_domain[%s]", `$1'), `$2'"'))

define(`confined_domain', `defn(format(``confined_domain[%s]", `$1'"')))
define(`confined_domain_set', `define(format(``confined_domain[%s]", `$1'), `$2'"'))

dnl
dnl list of all subjects that should be in confined mode
dnl
confined_domain_set(`polaris_iosd_t', `polaris_iosd_t')

dnl
dnl list of all subjects that should be placed in permissive mode
dnl
permissive_domain_set(`polaris_nginx_t', `polaris_nginx_t')
permissive_domain_set('polaris.nginx.webui_t', `polaris.nginx.webui_t')
permissive_domain_set('polaris.nginx.webui_install_t', `polaris.nginx.webui_install_t')
divert(0)dnl

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/domainmaps.m4
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#  
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#  
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#  
/tmp/dbgmn_log_svr  gen_context(system_u:object_r:polaris_fed_sock_t,s0)

/tmp/fed_post_result -- gen_context(system_u:object_r:polaris_fed_tmp_t,s0)

/flash/shfwd_params.txt  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.fc
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#  
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#  
policy_module(polarisrollbacktimer, 1.0);

polaris_process_domain_template(rbtimer)

corecmd_exec_bin(polaris_rbtimer_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_rbtimer_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_rbtimer_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_rbtimer_t)

# work with /tmp files
type polaris_rbtimer_tmp_t;
files_tmp_file(polaris_rbtimer_tmp_t)
manage_dirs_pattern(polaris_rbtimer_t, tmp_t, polaris_rbtimer_tmp_t)
manage_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
manage_fifo_files_pattern(polaris_rbtimer_t, polaris_rbtimer_tmp_t, polaris_rbtimer_tmp_t)
files_tmp_filetrans(polaris_rbtimer_t, polaris_rbtimer_tmp_t, { file dir })

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
# uses pidof
# rollbacktimer runs install_engine.sh
# access to read packages.conf

# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
# work with /bootflash/.rollback_timer (RBT_CONTROL_DIR) file
allow polaris_rbtimer_t self:capability sys_resource;
allow polaris_rbtimer_t self:capability dac_override;
allow polaris_rbtimer_t self:process setpgid;

polaris_btrace_data_manage(polaris_rbtimer_t)
polaris_chasfs_manage(polaris_rbtimer_t)
polaris_cpld_read(polaris_rbtimer_t)
polaris_boot_tmp_read(polaris_rbtimer_t)
polaris_read_debug_conf(polaris_rbtimer_t)
polaris_proc_rmonbifo_read(polaris_rbtimer_t)
polaris_rmonbifo_tmp_read(polaris_rbtimer_t)
polaris_disk_crashinfo_getattr(polaris_rbtimer_t)
polaris_disk_harddisk_read_lnk(polaris_rbtimer_t)
polaris_bootflash_manage(polaris_rbtimer_t)

logging_send_syslog_msg(polaris_rbtimer_t)

domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

polaris_install_engine_domtrans(polaris_rbtimer_t)
polaris_script_errmsg_use(polaris_rbtimer_t)

# watch over /bootflash/.rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_bootflash_t:dir watch;
# watch over /tmp/rp/rollback_timer
allow polaris_rbtimer_t polaris_rbtimer_tmp_t:dir watch;

optional_policy(
  polaris_ncd_tmp_read(polaris_rbtimer_t)
)

# access to /tmp/ufs//crashinfo

polaris_read_packages_conf(polaris_rbtimer_t)

# access to /cdrom0/ when *ova image is booted during  
# first instance of vwlc on ucs server  
polaris_removable_read(polaris_rbtimer_t)

# access to "/bootflash/.installer/install_abort_timer_val"  
polaris_disk_install_read(polaris_rbtimer_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarishytoolsd, 1.0);

polaris_process_domain_template(hytoolsd)

polaris_brtrace_data_manage(polaris_bhytoolsd_t)
polaris_chasfs_manage(polaris_bhytoolsd_t)
polaris_cpld_read(polaris_bhytoolsd_t)

# vmtoolsd transtions from polaris_bhytoolsd_t to vmtools_t -  
# bhytoolsd is small wrapper that calls vmtoolsd  
vmtools_domtrans(polaris_bhytoolsd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishytoolsd.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

policy_module(polarismobilityd, 1.0);

gen_require(`
   type polaris_mobilityd_t;
');
polaris_btrace_data_manage(polaris_mobilityd_t)
polaris_crf_data_manage(polaris_mobilityd_t)
polaris_chasfs_manage(polaris_mobilityd_t)
polaris_tdlresolve_read(polaris_mobilityd_t)
polaris_tdlldb_list_dirs(polaris_mobilityd_t)
polaris_crft_data_manage(polaris_mobilityd_t)
polaris_lua_read(polaris_mobilityd_t)
polaris_flashlib_read(polaris_mobilityd_t)
polaris_ripc_sman_ui_serv_connect(polaris_mobilityd_t)
polaris_db_tdlldb_dir_use(polaris_mobilityd_t)

# allow to use setrlimit
allow polaris_mobilityd_t self:capability sys_resource;
allow polaris_mobilityd_t self:process setrlimit;
allow polaris_mobilityd_t self:capability dac_override;
allow polaris_mobilityd_t self:udp_socket { create_socket_perms recv_msg send_msg };

logging_send_syslog_msg(polaris_mobilityd_t)
polaris_lfts_dev_use(polaris_mobilityd_t)
polaris_cpld_read(polaris_mobilityd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_mobilityd_t)
polaris_tmp_tdlldbPersist_setup(polaris_mobilityd_t)
polaris_tdlldbPersist_setup(polaris_mobilityd_t)
corenct_udp_bind_generic_node(polaris_mobilityd_t)
corenct_udp_bind_polaris_mobility_ctl_port(polaris_mobilityd_t)
corenct_udp_bind_polaris_mobility_data_port(polaris_mobilityd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.te
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#
# June 2017, Victor Kamensky
#
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#
/usr/binos/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t:s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.fc
No license file was found, but licenses were detected in source scan.

#  
# April 2017, Victor Kamensky  
# 
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# 

# polarisrrmmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.fc
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#  
# May 2017, Victor Kamensky  
# 
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# 

## <summary>Polaris pttcd Policy Rules.</summary>
# March 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

# July 2020, Swati Kumari
#
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#
policy_module(polarisptpdrp, 1.0);

gen_require(' 
    type polaris_ptpd_rp_t;
')
polaris_chasfs_read(polaris_ptpd_rp_t)
polaris_cpld_read(polaris_ptpd_rp_t)
polaris_tdlresolve_read(polaris_ptpd_rp_t)
polaris_lsmpi_dev_use(polaris_ptpd_rp_t)

# ptpd needs to have open,read,write access with /dev/ds31408
polaris_ds31408_dev_use(polaris_ptpd_rp_t)

# blzi device
polaris_blzi_dev_use(polaris_ptpd_rp_t)

allow polaris_ptpd_rp_t self:capability sys_nice;
allow polaris_ptpd_rp_t self:process setsched;

#
#!/bin/bash

# March 2017, Victor Kamensky
#
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#

# CLI: show platform software wireshark
/usr/binos/conf/wireshark_show.sh -- gen_context(system_u:object_r:polaris_wireshark_show_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisepcwsliaison.fc
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#

policy_module(polarisgsdrp, 1.0);

gen_require(';
    type polaris_gsd_rp_t;
');

#allow to run  readlink /dev/loop0 & /bin/date
corecmd_exec_bin(polaris_gsd_rp_t)

#run ldd, which in turn exec "ld.so --verify"
libs_exec_ld_so(polaris_gsd_rp_t)

# allow to run mount in its own domain
mount_domtrans(polaris_gsd_rp_t)
#  awk -v what=~.BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_gsd_rp_t)
polaris_btrace_data_manage(polaris_gsd_rp_t)
polaris_chasfs_manage(polaris_gsd_rp_t)
polaris_read_debug_conf(polaris_gsd_rp_t)
polaris_disk_crashinfo_getattr(polaris_gsd_rp_t)
polaris_guestshell_exec_files_exec(polaris_gsd_rp_t)
polaris_guestshell_files_read(polaris_gsd_rp_t)
polaris_ncd_tmp_read(polaris_gsd_rp_t)
polaris_proc_rmonbifo_read(polaris_gsd_rp_t)
polaris_cpld_read(polaris_gsd_rp_t)
polaris_bootflash_read(polaris_gsd_rp_t)
polaris_harddisk_read(polaris_gsd_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_gsd_rp_t)

auth_use_nsswitch(polaris_gsd_rp_t)
polaris_mronbifo_tmp_read(polaris_gsd_rp_t)

allow polaris_gsd_rp_t self:capability { dac_override sys_resource }
allow polaris_gsd_rp_t self:process setpgid;

type polaris_gsd_rp_tmp_t;
files_tmp_file(polaris_gsd_rp_tmp_t)
manage_dirs_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_files_pattern(polaris_gsd_rp_t, tmp_t, polaris_gsd_rp_tmp_t)
manage_fifo_files_pattern(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, polaris_gsd_rp_tmp_t)

# work with /tmp/guestshell_stk directory
files_tmp_filetrans(polaris_gsd_rp_t, polaris_gsd_rp_tmp_t, dir, "guestshell_stk")

gen_require(
    type rsync_t;
)
rsync_entry_domtrans(polaris_gsd_rp_t, rsync_t)
allow rsync_t polaris_gsd_rp_t:process sigchld;

# read /opt/cisco/caf directory
polaris_caf_files_read(polaris_gsd_rp_t)

gen_require(
    type polaris_caf_api_port_t;
    type polaris_caf_exec_t;
)
allow polaris_gsd_rp_t polaris_caf_api_port_t:tcp_socket name_connect;
allow polaris_gsd_rp_t polaris_caf_exec_t:file { getattr open read };
allow polaris_gsd_rp_t tmp_t:dir { create rmdir };

polaris_flashlib_read(polaris_gsd_rp_t)
polaris_flashlib_write(polaris_gsd_rp_t)

# watch over /tmp/udev/etc/udev
polaris_udev_tmp_read(polaris_gsd_rp_t)
polaris_udev_tmp_watch(polaris_gsd_rp_t)

# watch over /bootflash/gs_script
polaris_persistent_watch(polaris_gsd_rp_t)

#allow iox_ha_utils.sh to read /etc/docker/daemon.json.
gen_require("
type container_config_t;
')
read_files_pattern(polaris_gsd_rp_t, container_config_t, container_config_t)

# allow guestshell_ha.sh to log messages
logging_send_syslog_msg(polaris_gsd_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgsdrp.te
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#
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#

### <summary>Polaris Rmonbifo Policy Rules.</summary>

###################################################################################################
# Polaris Rmonbifo Driver policy                                                                                             
###################################################################################################

###################################################################################################
### <summary>
###      Read /proc/rmbonbifo files.
### </summary>
### <summary>
###      Domain allowed access.
### </summary>
### </summary>

# interface(`polaris_proc_rmonbifo_read',`
gen_require(`
type polaris_proc_rmonbifo_t;
')
read_files_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
list_dirs_pattern($1, polaris_proc_rmonbifo_t, polaris_proc_rmonbifo_t)
')

###################################################################################################
### <summary>
###      Getattr of /proc/rmbonbifo files.
### </summary>
### <summary>
### </summary>
## Domain allowed access.

### Read /tmp/sw/boot/rmonbifo files.

```
interface('polaris_rmonbifo_tmp_read',
gen_require('.type polaris_rmonbifo_t;
    type polaris_boot_tmp_t;
')
read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
# /tmp/sw/boot/rmonbifo dir is inside of polaris_boot_tmp_t dir
search_dirs_pattern($1, polaris_boot_tmp_t, polaris_rmonbifo_tmp_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.if

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```
/usr/binos/conf/ncd.sh -- gen_context(system_u:object_r:polaris_ncd_exec_t,s0)
/etc/conf/unifiedfs/mount_data gen_context(system_u:object_r:polaris_ncd_etc_t,s0)
```

```
/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)
```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisncd.fc
No license file was found, but licenses were detected in source scan.

#
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#

### <summary>Polaris iosd Policy Rules.</summary>

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
### <summary>
## Make the specified domain able to work with /tmp/restconf
### </summary>
### <param name="type">
## Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_restconf_tmp_use',
    gen_require(
        type polaris_restconf_tmp_t;
    )
    manage_files_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
    manage_dirs_pattern($1, polaris_restconf_tmp_t, polaris_restconf_tmp_t)
)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
### <summary>
## Create domain for IOSD Polaris processes. Note
## depending on policy build setting it could be confined or
## not confined
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>
### <param name="entry_point">
### <summary>
### Type of the program to be used as an entry point to this domain.

#### </summary>
#### </param>

```c
interface('polaris_iosd_domain',
          polaris_process_domain_confined($1, $2)
          polaris_iosd_maybe_unconfined($1)
')
```

******************************************************************************
#### <summary>
#### Make the specified domain able to work with iosd2iox files
#### </summary>
#### <param name="type">
####  <summary>
####  Domain allowed access.
####  </summary>
#### </param>

```c
interface('polaris_iosd2iox_tmp_manage',
          gen_require(
              type polaris_iosd2iox_tmp_t;
          )
          manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
')
```

******************************************************************************
#### <summary>
#### Make the specified domain able to read iosd2iox files
#### </summary>
#### <param name="type">
####  <summary>
####  Domain allowed access.
####  </summary>
#### </param>

```c
interface('polaris_iosd2iox_tmp_read',
          gen_require(
              type polaris_iosd2iox_tmp_t;
          )
          read_files_pattern($1,polaris_iosd2iox_tmp_t,polaris_iosd2iox_tmp_t)
')
```

******************************************************************************
#### <summary>
###Send messages to iosd unix datagram sockets.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_iosd_dgram_send',
gen_require(
  type polaris_iosd_t;
')
allow $1 polaris_iosd_t:unix_dgram_socket sendto;
')

########################################
### <summary>
### Make the specified domain to read /tmp/rp/.iosp_dmiauthd
### </summary>
### <param name="type">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_dmiauthd_token_read',
  gen_require(
    type polaris_dmiauthd_token_t;
  ')
  read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)
')

########################################
### <summary>
### Make the specified domain to read /tmp/rp/.iosp_gnmib
### </summary>
### <param name="type">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_gnmib_token_read',
  gen_require(
    type polaris_gnmib_token_t;
  ')
manage_files_pattern($1, polaris_gnmib_token_t, polaris_gnmib_token_t)

'"

########################################
## <summary>
## Make the specified domain able to work with files
## with polaris_iosd_tmp_files_t
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
## </param>
#
# interface('polaris_iosd_tmp_file_use',
  gen_require(
    type polaris_iosd_tmp_files_t;
  ')')

manage_files_pattern($1, polaris_iosd_tmp_files_t, polaris_iosd_tmp_files_t)
allow $1 polaris_iosd_tmp_files_t:sock_file { manage_sock_file_perms};
'

########################################
## <summary>
## Manage /bootflash/geodb/ files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_geodb_files_manage',
  gen_require(
    type polaris_geodb_files_t;
  ')')

manage_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
manage_dirs_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
manage_lnk_files_pattern($1, polaris_geodb_files_t, polaris_geodb_files_t)
'

########################################
## <summary>
## Allow the specified domain to read /boot/vcpu_template.txt

interface(`polaris_iosd_vcpu_read',`
  gen_require(
    type polaris_iosd_vcpu_t;
    type polaris_disk_varied_t;
    type polaris_disk_csl_p_t;
  )

  read_files_pattern($1, { polaris_disk_varied_t polaris_disk_csl_p_t }, polaris_iosd_vcpu_t)
')

########################################
## <summary>
##      Allow the specified domain to read /tmp/usb-disable
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_iosd_usb_disable_tmp_manage',`
#  gen_require(
#    type polaris_iosd_usb_disable_tmp_t;
#  )
#
#  manage_files_pattern($1, polaris_iosd_usb_disable_tmp_t, polaris_iosd_usb_disable_tmp_t)
#  files_temp_filetrans($1, polaris_iosd_usb_disable_tmp_t, file, "usb-disable")
')

########################################
## <summary>
##      Allow the specified domain to access /bootflash/EFI
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface(`polaris_efi_files_list_dirs',`
gen_require(
    type polaris_efi_files_t;
')

list_dirs_pattern($1, polaris_efi_files_t, polaris_efi_files_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.if
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#
# March 2017, Victor Kamensky
#
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#
#
# polarissmd file contexts place holder

# dc_profile_dir
/mnt/sd3/user/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/flash1/user/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)
/bootflash/dc_profile_dir(/.*)?  gen_context(system_u:object_r:polaris_smd_disk_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.fc
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#
# March 2017, Victor Kamensky
#
# July 2017, Victor Kamensky
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#
# polarismqipc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.fc
No license file was found, but licenses were detected in source scan.

#
## <summary>Polaris iomd Policy Rules.</summary>

### Polaris iomd Policy Rules.

### Work (read, write, ioctl) with /dev/ngio[0-9+] devices

### <summary>

### Domain allowed access.

### </summary>

### <param name="domain">

### Domain allowed access.

### </param>

```c
interface('polaris_ngio_dev_use',
gen_require(''
    type device_t;
type polaris_ngio_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_ngio_device_t)
    read_chr_files_pattern($1, device_t, polaris_ngio_device_t)
')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.if

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

# March 2017, Victor Kamensky

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```c
policy_module(polarisrepm, 1.0);

gen_require(''
    type polaris_repm_t;
')
```

polaris_btrace_data_manage(polaris_repm_t)
polaris_crfst_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_ddldb_list_dirs(polaris_repm_t)
polaris_cpld_read(polaris_repm_t)
polaris_lua_read(polaris_repm_t)
polaris_flashlib_read(polaris_repm_t)
polaris_ripc_sman_ui_serv_connect(polaris_repm_t)

polaris_db_tdldb_dir_use(polaris_repm_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_repm_t)

allow polaris_repm_t self:capability { sys_resource dac.override }
allow polaris_repm_t self:process setrlimit;

# temporary files created for repm in /tmp/replication
type polaris_repm_tmp_t;
files_tmp_file(polaris_repm_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_repm_tmp_t, dir, "replication")
manage_files_pattern(polaris_repm_t, polaris_repm_tmp_t, polaris_repm_tmp_t, polaris_repm_tmp_t)

polaris_dyncfg_tmp_read(polaris_repm_t)

polaris_tdldbpersist_setup(polaris_repm_t)

polaris_tmp_tdldb_persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq-local_rp_1_0
type polaris_repm_local_rp_mqipc_t;
polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_1_0)
polaris_mqipc_create_name(polaris_repm_t, polaris_repm_local_rp_mqipc_t, local_rp_0_0)

# repm peer mqipc queues under /dev/shm/repm_peer_mq folder
type polaris_repm_peer_mqipc_t;
polaris_mqipc_type(polaris_repm_peer_mqipc_t)
polaris_mqipc_create_name_dir(polaris_repm_t, polaris_repm_peer_mqipc_t, repm_peer_mq)

# repm invokes installer_api_* api's which need access to /bootflash/.installer/install_issu_state
polaris_install_disk_read(polaris_repm_t)

ifdef(`petra_platform',
#allow access to polaris_cm_rp sem for chasfs
polaris_cm_rp_sem_use(polaris_repm_t)
#allow access to /flash12/moncfg/cfg.dat for config
polaris_swipedrive_file_manage(polaris_repm_t)
)

```
# execute /bin/tar
corecmd_exec_bin(polaris_repm_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_repm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te
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#

### <summary>Polaris NGWC Platform Policy Rules.&lt;/summary&gt;

### <summary>
### Manage ngwc shared memory /dev/shm/ngwc_shm.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_ngwc_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_ngwc_shm_t;
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_shm_t)
    allow $1 polaris_ngwc_shm_t:tfile map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_shm_t, file, "ngwc_shm")
')

### <summary>
### Manage ngwc shared memory /dev/shm/ngwc_scc_shm.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_ngwe_scc_shm_manage',
    gen_require('type tmpfs_t;
    type polaris_ngwe_scc_shm_t;
')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwe_scc_shm_t)
    allow $1 polaris_ngwe_scc_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwe_scc_shm_t, file, "ngwc_scc_shm")
')

#######################################
## <summary>
##      Manage ngwc shared memory /dev/shm/iomd_to_fed_ptp_offload.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_ngwe_itfpo_manage',
    gen_require('type tmpfs_t;
    type polaris_ngwe_itfpo_t;
')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwe_itfpo_t)
    allow $1 polaris_ngwe_itfpo_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwe_itfpo_t, file, "iomd_to_fed_ptp_offload")
')

#######################################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_sdm_shm_manage',
    gen_require('type tmpfs_t;
    type polaris_sdm_shm_t;
')
type polaris_sdm_shm_t;
)
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_sdm_shm_t)
filetrans_pattern($1, tmpfs_t, polaris_sdm_shm_t, file, "sdm")
allow $1 polaris_sdm_shm_t:file map;
)

# MMAP Driver for mapping ASIC Memory space

interface(`polaris_chdrvmmmap_dev_use',`
gen_require`
    type device_t;
    type polaris_chdrvmmmap_device_t;
')
read_chr_files_pattern($1, device_t, polaris_chdrvmmmap_device_t)
write_chr_files_pattern($1, device_t, polaris_chdrvmmmap_device_t)
allow $1 polaris_chdrvmmmap_device_t:chr_file map;
')

interface(`polaris_gettysburg_fpga_dev_use',`
gen_require`
    type device_t;
    type polaris_gettysburg_fpga_device_t;
')
read_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
mmap_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
')

#############################################################
## <summary>
##  Work (read, write, ioctl) with /dev/cisco/dplriomem
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_dplr_iomem_mmapdrv_dev_use',
# gen_require(''
#     type device_t;
#     type polaris_dplr_iomem_mmapdrv_device_t;
# '');
# write_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
# read_chr_files_pattern($1, device_t, polaris_dplr_iomem_mmapdrv_device_t)
# allow $1 polaris_dplr_iomem_mmapdrv_device_t:chr_file map;
#
#############################################################
## <summary>
##  Allow access to semaphore of quake flashlib. Pure hack
## semaphore got created by dyncfg accidently, need to change to
## POSIX semaphore code ASAP.
## LOOK AT ME
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_quake_flashlib_sem_use',
# gen_require(''
#     type polaris_dyncfg_t;
#     allow $1 polaris_dyncfg_t:sem rw_sem_perms;
# ')

#############################################################
## <summary>
##  Manage quake i2c semaphores /dev/shm/sem.i2c_sem00N
## and work with corresponding i2c devices (/dev/i2c-XXX)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_quake_i2c_manage',
      gen_require(
      type tmpfs_t;
      type polaris_quake_i2c_t;
   )
   manage_files_pattern($1, tmpfs_t, polaris_quake_i2c_t)
   polaris_i2c_use($1)
)

##########################################################
## <summary>
##	Allow caller to read or write the exiting_bays file
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</param>
##</summary>
## </param>
interface('polaris_rw_exiting_bays',
      gen_require(
      type polaris_proc_exiting_bays_t;
      type proc_t;
   )
rw_files_pattern($1, polaris_proc_exiting_bays_t, polaris_proc_exiting_bays_t)
# FIXME/TODO:
# The kernel does not reliably create /proc/exiting_bays on all platforms
# The following lines should be removed when CSCvv27097 is addressed
allow $1 polaris_proc_exiting_bays_t:file create;
allow $1 proc_t:file create;
allow $1 proc_t:dir { add_name write };
')

##########################################################
## <summary>
##	Allow caller to create open write /tmp/fpga_upgrade
## </summary>
## <param name="domain">
##</param>
##</param>
interface('polaris_fpga_upgrade_tmp_use',
    gen_require(
        type polaris_fpga_upgrade_tmp_t;
    )
    allow $1 polaris_fpga_upgrade_tmp_t:file { create open write };
)

########################################
## <summary>
## Execute a domain transition to run cat9k_ssd_unmount.sh
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
#
interface('polaris_ssd_unmount_domtrans',
    gen_require(
        type polaris_ssd_unmount_t, polaris_ssd_unmount_exec_t;
    )
    domtrans_pattern($1, polaris_ssd_unmount_exec_t, polaris_ssd_unmount_t)
)

########################################
## <summary>
## Read lnk_file /ucode0, polaris_disk_ucode0_t.
## </summary>
## <param name="domain">
##   Domain allowed access.
## </param>
#
interface('polaris_disk_ucode0_read_lnk',
    gen_require(
        type polaris_disk_ucode0_t;
    )
    read_lnk_files_pattern($1, polaris_disk_ucode0_t, polaris_disk_ucode0_t)
)

########################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/fpgaiomem
## </summary>
## <param name="domain">
## </param>
#
## Domain allowed access.

```c
interface('polaris_fpga_iomem_mmapfpga_dev_use',
    gen_require(''
        type device_t;
        type polaris_fpga_iomem_mmapfpga_device_t;
    ')
    allow $1 polaris_fpga_iomem_mmapfpga_device_t:chr_file map;
    write_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_fpga_iomem_mmapfpga_device_t)
    ')
```

# Read Write access to /bootflash/nplusm-power

```c
interface('polaris_nplusm_power_manage',
    gen_require(''
        type polaris_nplusm_power_file_t;
        type polaris_disk_bootflash_t;
    ')
    filetrans_pattern($1, polaris_disk_bootflash_t, polaris_nplusm_power_file_t, file, "nplusm-power")
    allow $1 polaris_nplusm_power_file_t:file { write create read open getattr unlink };
    ')
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if
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```
/usr/binos/conf/boothelper_evt.sh -- gen_context(system_u:object_r:polaris_boothelper_evt_exec_t,s0)
/tmp/udev(/.*)?                      gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)
/tmp/rommon_upgrade_ngwc(/.*)?      gen_context(system_u:object_r:polaris_boothelper_tmp_t,s0)
```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.fc
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#

## <summary>Polaris ezman_cc Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.if
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dnl
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dnl
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dnl
define(`polaris_lipc_service_server',``)
define(`polaris_lipc_service_client',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_fc.m4
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.fc
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#
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domtrans_pattern(polaris_smand_t, $2, $1)
')

########################################
## <summary>
## Write into fifo file created by smand, typical case when
## smand starts script under popen.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
# interface( polaris_smand_use_fifo,`
gen_require(`
type polaris_smand_t;
')

write_fifo_files_pattern($1, polaris_smand_t, polaris_smand_t)
')

########################################
## <summary>
## Read access to CRDU fifo file created by smand
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
# interface( polaris_smand_crdu_pipe_read,`
gen_require(`
type polaris_crdu_pipe_tmp_t;
')

read_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
')

########################################
## <summary>
## Manage CRDU fifo file created by smand
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
## <rolecap/>
#
interface('polaris_smand_crdu_pipe_manage',`
    gen_require(`
        type polaris_crdu_pipe_tmp_t;
    `)
    manage_fifo_files_pattern($1, polaris_crdu_pipe_tmp_t, polaris_crdu_pipe_tmp_t)
`)  

#######################################
## <summary>
##      Write to polaris_sman_bshell_serv_lipc_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to connect and write into this lipc file.
##      </summary>
## </param>
#
# interface('polaris_sman_bshell_serv_lipc_write',`
    gen_require(`
        type polaris_sman_bshell_serv_lipc_t;
        type polaris_smand_t;
        `)
    polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smand_t)
`)  

#######################################
## <summary>
##   Manage /tmp/show_ports_tmp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to manage tmp files.
##      </summary>
## </param>
## <rolecap/>
interface('polaris_trans_ports_tmp_manage',`
    gen_require(`
        type polaris_trans_stats_tmp_t;
    `)
    manage_files_pattern($1, polaris_trans_ports_tmp_t, polaris_trans_ports_tmp_t)
create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output

## <param name="domain">

## Domain allowed to manage tmp files.

## </param>

interface('polaris_trans_stats_tmp_manage',

gen_require(
    type polaris_trans_stats_tmp_t;
)
manage_files_pattern($1, polaris_trans_stats_tmp_t, polaris_trans_stats_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmand.if
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#

/usr/cpp/bin/cpp_cdm_svr -- gen_context(system_u:object_r:polaris_cpp_cdm_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcdm.fc
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#

## <summary>Polaris Flashlib Policy Rules.</summary>

# Flashlib policy (infra/flashlib)
### Read Polaris /tmp/.flashlock file

```c
##<summary>
## Read Polaris /tmp/.flashlock file
## </summary>
##<param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_flashlib_lock',`
  gen_require(`
    type tmp_t;
    type polaris_flashlib_lock_t;
  ')

  manage_files_pattern($1, tmp_t, polaris_flashlib_lock_t)
  allow $1 self:capability dac_override;

  ifdef(`quake_platform',`
    polaris_quake_flashlib_sem_use($1)
  ')
  # access of .flashlock on ultra
  ifdef(`vxe_family',`
    allow $1 self:capability dac_override;
  ')
  ')
```

### Write Polaris /tmp/flashdev.log file

```c
##<summary>
## Write Polaris /tmp/flashdev.log file
## </summary>
##<param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_flashlib_log',`
  gen_require(`
    type tmp_t;
    type polaris_flashlib_log_t;
  ')

  manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
  ')
```
## <summary>
## Read partition disk device that contains rommon variables.
## C8KV reads object store and reads grub files in BIOS and EFI partitions.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_flashlib_read',`
    gen_require('`
        type device_t;
        type polaris_flashlib_device_t;
    ')
    polaris_flashlib_lock($1)
    polaris_flashlib_log($1)
    read_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
    read_chr_files_pattern($1, device_t, polaris_flashlib_device_t)
    ifdef('vxe_family',`
        polaris_vxeinstall_info_read($1)
        polaris_grub_info_read($1)
    ')
    ifdef('vwlc_platform',`
        polaris_vwlcinstall_info_read($1)
        polaris_vwlc_grub_info_read($1)
    ')

    # processes that use tdllib/DB will access romvar
    # via flashlib mcp_getmonvar API which read /objstore.
    optional_policy('`
        polaris_disk_objstore_read($1)
    ')
    polaris_flash_shm_manage($1)
')

#################################################################
## <summary>
## Write partition disk device that contains rommon variables.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_flashlib_write',`
    gen_require('`

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 type device_t;
 type polaris_flashlib_device_t;

 polaris_flashlib_lock($1)
 write_blk_files_pattern($1, device_t, polaris_flashlib_device_t)
 polaris_flash_shm_manage($1)

 ########################################
## <summary>
##      Manage ngwc shared memory /dev/shm/flash_shm.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface('polaris_flash_shm_manage',
    gen_require(''
        type tmpfs_t;
        type polaris_flash_shm_t;
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_flash_shm_t)
    allow $1 polaris_flash_shm_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashlib.if
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#
## <summary>Polaris LUA Policy Rules.</summary>

## Luapolicy

## <summary>
### Read Polaris lua files (/lua)

```lua
interface('polaris_lua_read';
gen_require('
type polaris_lua_file_t;
')
```

allow $1 polaris_lua_file_t:file read_file_perms;
allow $1 polaris_lua_file_t:dir { read_file_perms search_dir_perms };
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.if
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#

### Polarismd_rp Policy Rules.

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.if
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### Polarisipbl Policy Rules.

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisipbl.if
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#
policy_module(polarisdmiportsfetch, 1.0);

gen_require(
    type polaris_dmi_ports_fetch_t;
')
polaris_chasfs_manage(polaris_dmi_ports_fetch_t)
polaris_tdlresolve_read(polaris_dmi_ports_fetch_t)
polaris_cpld_read(polaris_dmi_ports_fetch_t)

policy_module(polarisngwcfeddebug, 1.0);

gen_require(
    type polaris_ngwc_fed_debug_mgr_t;
')
polaris_bootflash_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_btrace_data_manage(polaris_ngwc_fed_debug_mgr_t)
polaris_cpld_read(polaris_ngwc_fed_debug_mgr_t)
polaris_flashlib_read(polaris_ngwcFedDebugMgr_t)
polaris_chasfs_read(polaris_ngwcFedDebugMgr_t)
polaris_tdlresolve_read(polaris_ngwcFedDebugMgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwcFedDebugMgr_t)
polaris_dmammap_dev_use(polaris_ngwcFedDebugMgr_t)
polaris_chdrvmmap_dev_use(polaris_ngwcFedDebugMgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwcFedDebugMgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwcFedDebugMgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwcFedDebugMgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwcFedDebugMgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwcFedDebugMgr_t)
auth_use_nsswitch(polaris_ngwcFedDebugMgr_t)

# lspci needs sysfs access
dev_list_sysfs(polaris_ngwcFedDebugMgr_t)
dev_read_sysfs(polaris_ngwcFedDebugMgr_t)

# dope.py /tmp/idope_svr, /tmp/shfwd_svr socket files
type polaris_fed_debug_sock_t;
files_tmp_file(polaris_fed_debug_sock_t)
files_tmp_filetrans(polaris_ngwcFedDebugMgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwcFedDebugMgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require(`
    type tmp_t;
`)
manage_sock_files_pattern(polaris_ngwcFedDebugMgr_t, tmp_t, polaris_fed_debug_sock_t)

# allow show-forward to use following temp files in /tmp dir
type polaris_fed_debug_tmp_t;
files_tmp_file(polaris_fed_debug_tmp_t)
files_tmp_filetrans(polaris_ngwcFedDebugMgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwcFedDebugMgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwcFedDebugMgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")
gen_require(`
    type tmp_t;
`)

manage_files_pattern(polaris_ngwcFed_debug_mngr_t, {tmp_t polaris_fed_debug_tmp_t},
polaris_fed_debug_tmp_t)

# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwcFed_debug_mngr_t)

# /dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require(""
    type root_t;
")
filetrans_pattern(polaris_ngwcFed_debug_mngr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwcFed_debug_mngr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenet_tcp_bind_generic_node(polaris_ngwcFed_debug_mngr_t)
allow polaris_ngwcFed_debug_mngr_t self:tcp_socket {getattr setopt ioctl getopt bind create listen accept connect
    read write};
corenet_tcp_bind_polaris_fed_debug_trace_rpc_port(polaris_ngwcFed_debug_mngr_t)
corenet_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwcFed_debug_mngr_t)

# dope.py listens on port 5389 for shfwd commands
corenet_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwcFed_debug_mngr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
ifdef("nyquist_platform;"
polaris_dev_mem_use(polaris_ngwcFed_debug_mngr_t)
"")
ifdef("starfleet_platform;"
polaris_dev_mem_use(polaris_ngwcFed_debug_mngr_t)
"")
ifdef("quake_platform;"
polaris_dev_mem_use(polaris_ngwcFed_debug_mngr_t)
"")

# /tmp/asic_config.pickle file access
type polaris_fed_debug_asic_config_t;
files_tmp_file(polaris_fed_debug_asic_config_t);
files_tmp_filetrans(polaris_ngwcFed_debug_mngr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(""
    type tmp_t;
")
manage_files_pattern(polaris_ngwcFed_debug_mngr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl }

allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map }

manage_dirs_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_ffi_t)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_ffi_t, polaris_fed_debug_ffi_t)

allow polaris_ngwc_fed_debug_mgr_t polaris_fed_debug_ffi_t:file { execute map }

allow polaris_ngwc_fed_debug_mgr_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.te
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dnl

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dnl

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dnl

dnl Process Names Map
define(`process_map', `defn(format(``process_map[%s]', `$1'))')
declare(`process_map_set', `define(format(``process_map[%s]', `$1'), `$2'))'

dnl Process Names and Labels
define(`process_short_name', `patsubst($1, `^BPROC_', `')

define(`process_default_stem', `translit(process_short_name($1), `A-Z', `a-z')')
define(`process_stem', `ifelse(process_map(process_short_name($1)), `', process_default_stem($1))

define(`process_map(process_short_name($1)))'$1)$2')

define(`process_label', `format(`polaris_%s_t', process_stem($1))')
define(`process_exec_label', `format(`polaris_%s_exec_t', process_stem($1))')

dnl Process Type Map: track that type declations unique
define(`process_type_map', `defn(format(``process_type_map[%s]', `$1'))')
define(`process_type_map_set', `define(format(``process_type_map[%s]', `$1'), `$2'))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process.m4
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dnl

process_map_set(AUTO_UPGRADE_CLIENT_RP, autoupgrade)
process_map_set(BSM_RP, bsm)
process_map_set(BTM_CC, btman)
process_map_set(BTM_FP, btman)
process_map_set(BTM_RP, btman)
process_map_set(BTM_BP, btman)
process_map_set(CCD_RP, caf)
process_map_set(DMI_CONFD, confd)
process_map_set(DMI_PTTCD, pttcd)
process_map_set(SDWAN_CONFD, confd)
process_map_set(EMD_CC, emd)
process_map_set(EMD_FP, emd)
process_map_set(EMD_RP, emd)
process_map_set(FCD_RP, flashcheck)
process_map_set(FM_FP, fman_fp)
process_map_set(FM_CC, fman_cc)
process_map_set(FM_RP, fman_rp)
process_map_set(HM_CC, hm)
process_map_set(SM, smand)

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process_map_set(VMAN_RP, vman)
process_map_set(POLJVM, jvm)
process_map_set(CLUSTERMGR, clustermgr)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/processmap.m4
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dnl
divert(-1)

include(`polaris_process.m4')

include(`polaris_database_db.m4')
include(`polaris_database_db_if.m4')

include(`polaris_max_scope.m4')

divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform DB Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_if.m4
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dnl
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dnl
dnl VXE Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vxemaps.m4
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#
# January 2021, Gabriel Lee, Shawn Liu
#
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#

/ezManage_v1/ezManage_sms_handler.py -- gen_context(system_u:object_r:polaris_ezmanage_exec_t,s0)

/ezManage_v1(.*?)
  gen_context(system_u:object_r:polaris_ezmanage_file_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.fc
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#

## <summary>Polaris dmi_vtyserverutild Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.if
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#
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#

# polarisbsm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.fc
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#
# February 2020, Victor Kamensky
#
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## <summary>Polaris dmi_ports_fetch Policy Rules.</summary>

### Work with /bootflash/sdavc

### <param name="domain">

Domain allowed access.

### </param>

```c
interface('polaris_sdavc_proxy_manage',
    gen_require(
        type polaris_sdavc_proxy_files_t;
    )
    manage_files_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    manage_dirs_pattern($1, polaris_sdavc_proxy_files_t, polaris_sdavc_proxy_files_t)
    )
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.if
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# March 2017, Victor Kamensky

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/usr/binos/bin/cman_fp_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_us_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwlc -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_vwlcl_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/bin/cman_fp_sumatra_ledp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
/usr/binos/conf/mcp_pcie_status_cmd.sh -- gen_context(system_u:object_r:polaris_pcie_status_cmd_exec_t,s0)
/dev/hkp -c gen_context(system_u:object_r:polaris_hkp_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfp.fc
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#
June 2020, Manu Roy

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# /bootflash labels
/bootflash(/.*)?     gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh_host.*_key.pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh_host.*_key   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/core(/.*)?    gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER
/flashed              gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

#flash1
/flashed1(/.*)?       gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/flashed1/CRASH/(.*)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
/flashed1/CRASH/tracelogs/(.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/flashed7/(.*)?       gen_context(system_u:object_r:polaris_disk_license_t,s0)
/flashed8/(.*)?       gen_context(system_u:object_r:polaris_disk_license_t,s0)
/flashed9/(.*)?       gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /flash10
# USER is a reserved selinux keyword - escape it like this
/flashed10/(.*)?      gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/flashed10/USE[R]/core/(.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/flashed10/USE[R]/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/flashed10/USER/.ssh/ssh_host_rsa_key -- gen_context(system_u:object_r:sshd_key_t,s0)

#sdflash
/dev/mmcblk1p1 -b     gen_context(system_u:object_r:polaris_iots_swipdrive_device_t,s0)
/dev/sdflash           gen_context(system_u:object_r:polaris_iots_swipdrive_file_t,s0)

#usb device
/dev/sda1 -b           gen_context(system_u:object_r:polaris_iots_swipdrive_device_t,s0)

#DMA ASIC driver
/dev/mvDmaDrv          gen_context(system_u:object_r:polaris_iots_mvDmaDrv_device_t,s0)
/dev/mvIntDrv           gen_context(system_u:object_r:polaris_iots_mvIntDrv_device_t,s0)

#crashinfo is symbolic link to /mnt/sd1 created by systemd-tmpfiles
/crashinfo              gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)

#dev
/dev/petra-fpga -c     gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
/dev/petra-zyq-ps-gpio -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
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/dev/petra-gpio-pc3 -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)
# Line card fpga driver for mmap
/dev/petra-lc-fpga -c gen_context(system_u:object_r:polaris_iots_fpga_device_t,s0)

# memory devices
/dev/tm -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/dev/hcam -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
# vlan virtual ethernet
/dev/petra-krport -c gen_context(system_u:object_r:polaris_iots_tm_device_t,s0)
/tmp/udev/etc/udev/sdflash/udev-info gen_context(system_u:object_r:polaris_udev_tmp_files_t,s0)

# hellcat
/dev/spidev0.0 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)
/dev/spidev0.1 -c gen_context(system_u:object_r:polaris_iots_led_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiotswitch.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwcfed, 1.0);

gen_require(
    type polaris_ngwcFed_t;
')
polaris_btrace_data_manage(polaris_ngwcFed_t)
polaris_chasfs_manage(polaris_ngwcFed_t)
polaris_tdlresolve_read(polaris_ngwcFed_t)
polaris_tdlldb_list_dirs(polaris_ngwcFed_t)
polaris_lua_read(polaris_ngwcFed_t)
polaris_flashlib_read(polaris_ngwcFed_t)
polaris_chasync_files_manage(polaris_ngwcFed_t)

# LOOK AT ME: system() call restriction remove after
# CSCvn19282 is fixed using CSCvn19287.
#
# fed executes cp_trace_request.sh when a sv stack split occurs.
# cp_trace_request.sh does source of pglobals.sh which requires the
# access of /crashinfo.
polaris_disk_crashinfo_getattr(polaris_ngwcFed_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_fed_t)

polaris_db_tldlb_dir_use(polaris_ngwc_fed_t)

corecmd_exec_bin(polaris_ngwc_fed_t)
corecmd_exec_shell(polaris_ngwc_fed_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_fed_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_fed_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_ngwc_fed_t)

polaris_obfl_data_manage(polaris_ngwc_fed_t)
polaris_lsmpi_dev_use(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:capability { sys_rawio dac_override ipc_owner sys_nice ipc_lock };
allow polaris_ngwc_fed_t self:capability2 block_suspend;

polaris_dyncfg_tmp_read(polaris_ngwc_fed_t)

optional_policy(
  polaris_ngwc_shm_manage(polaris_ngwc_fed_t)
  ')

optional_policy(
  polaris_ngwc_scc_shm_manage(polaris_ngwc_fed_t)
  ')

# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_ngwc_fed_t)
polaris_cpp_tmp_files_use(polaris_ngwc_fed_t)

optional_policy(
  # /dev/dplr_intrpt usage
  polaris_dplr_dev_use(polaris_ngwc_fed_t)
  ')

  # /dev/dmammap usage
  polaris_dmammap_dev_use(polaris_ngwc_fed_t)

  # /dev/remap_mem0 usage
  polaris_remap_mem0 DEV use(polaris_ngwc_fed_t)
  ')

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type polaris_fed_xcvr_pipe_t;
files_type(polaris_fed_xcvr_pipe_t)
dev_associate(polaris_fed_xcvr_pipe_t)
gen_require(
    type device_t;
')
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "cli2xcvr_pipe")
filetrans_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t, fifo_file, "xcvr2cli_pipe")
manage_fifo_files_pattern(polaris_ngwc_fed_t, device_t, polaris_fed_xcvr_pipe_t)
polaris_disk_bootflash_search(polaris_ngwc_fed_t)

allow polaris_ngwc_fed_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rw_generic_chr_files(polaris_ngwc_fed_t)

# read /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ngwc_fed_t)

# bind to shfwd port
corennt_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)

# connect to shfwd port
corennet_tcp_connect_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_t)

# creates and write /flash/shfwd_params.txt file
polaris_bootflash_manage(polaris_ngwc_fed_t)

# use polaris_ngwc_fed_t as syslog_client_type
logging_send_syslog_msg(polaris_ngwc_fed_t)

# bind to dbgmn port
corennet_udp_bind_polaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)

corennet_udp_bind_generic_node(polaris_ngwc_fed_t)
allow polaris_ngwc_fed_t self:udp_socket { bind create getopt };

optional_policy(
    # on macallan cman_fp needs access to /dev/cisco/dplriomem
    # for mapping dplr io memory to application space.
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_t);
')

# On Macallan as part of doppler sdk_asic_init(), a
# rw call is made to /dev/cpld
polaris_cpld_dev_use(polaris_ngwc_fed_t)
polaris_cpld_read(polaris_ngwc_fed_t)
# ptp_init_systemclock() called during fed process init writes
# /sys/devices/platform/cpld/reg_doppe_1588_sync
polaris_cpld_write(polaris_ngwc_fed_t)

optional_policy(
  # In Macallan cards which use Doppler ASIC,
  # ngmod_doppler_mmap() api is called to get hold of
  # MMapped Asic address. As part of the operation it uses
  # /dev/chdrvmmap device.
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_t)
)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvk00737 is fixed using CSCvk00741
ifdef(`nyquist_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
  )

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvm34589 is fixed using CSCvm34617
ifdef(`starfleet_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
  )

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
  )

ifdef(`sumatra_platform',
  # LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem_use(polaris_ngwc_fed_t)
polaris_sumatra_doppler_dev_use(polaris_ngwc_fed_t)
  )

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn08008 is fixed using CSCvn08019.
# FED accesses raw memory (/dev/mem) for sending/receiving OOB
# traffic on an FSS interface.
ifdef(`passport_platform',
polaris_dev_mem_use(polaris_ngwc_fed_t)
  )
# Entropy number is read from ACT2 and stored in /tmp/hw_entropy
# Allow sesa library read from /tmp/hw_entropy to update random number seed.
polaris_hw_entropy_read(polaris_ngwc_fed_t)

# fed is server for /tmp/dbgmn_log_svr socket file
type polaris_fed_sock_t;
files_tmp_file(polaris_fed_sock_t)

files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_sock_t, sock_file, "dbgmn_log_svr")

gen_require(
    type tmp_t;
)
manage_sock_files_pattern(polaris_ngwc_fed_t, tmp_t, polaris_fed_sock_t)

optional_policy(
    # talk to rdope.sh over unix sockets
    polaris_fed_debug_sock_write(polaris_ngwc_fed_t)
)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_ngwc_fed_t)
)

# creates few files under /tmp/installer (e.g like /tmp/installer/phy_shannon_ver_1) to indicate current h/w conditions
polaris_install_tmp_manage(polaris_ngwc_fed_t)

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_ngwc_fed_t)

optional_policy(
    polaris_quake_i2c_manage(polaris_ngwc_fed_t)
)

# work with /tmp files (/tmp/fed_post_results)
type polaris_fed_tmp_t;
files_tmp_file(polaris_fed_tmp_t);
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, file, "fed_post_result")
files_tmp_filetrans(polaris_ngwc_fed_t, polaris_fed_tmp_t, dir, "test_mrvlphy")
manage_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_dirs_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
manage_fifo_files_pattern(polaris_ngwc_fed_t, polaris_fed_tmp_t, polaris_fed_tmp_t, polaris_fed_tmp_t)
polaris_cm_rp_tmp_manage(polaris_ngwc_fed_t)

# Allow write to flash. Needed for template support.
polaris_flashlib_write(polaris_ngwc_fed_t)

# CSCvo78054 will be used to fix fed policies on crankshaft properly.
# Below policy is just to unblock Nightwatch boot issue on ISR in
# enforcing mode.
ifdef("crankshaft_family","
# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_ngwc_fed_t)

#ISR Nightwatch module creates softlink /flash -> /bootflash
gen_require(
  type root_t;
')
filetrans_pattern(polaris_ngwc_fed_t, root_t, polaris_disk_bootflash_t, lnk_file, "flash")
'
)

optional_policy(
polaris_epc_ws_liaison_tmp_read(polaris_ngwc_fed_t)
')

# ngwc-fed manage /tmp/epc_ws/fed_to_wif_pipe file fifo_file.
optional_policy(
polaris_epc_ws_liaison_fifo_manage(polaris_ngwc_fed_t)
')

optional_policy(
polaris_ngwc_itfpo_manage(polaris_ngwc_fed_t)
')

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy(
polaris_serdes_asic_key_tmp_manage(polaris_ngwc_fed_t)
')

# ngwc-fed creates /tmp/epc_ws dir
optional_policy(
polaris_epc_ws_liaison_tmp_file(polaris_ngwc_fed_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.te
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# April 2017, Victor Kamensky
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#

/usr/bin/os/sbin/ncsshd -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_exec_t,s0)
/var/run/ncsshd_mgmt.pid -- gen_context(system_u:object_r:polaris_dmi_ncsshd_mgmt_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/mcp_smartctl_cmds.sh -- gen_context(system_u:object_r:polaris_smartctl_exec_t,s0)
/tmp/smart.pid -- gen_context(system_u:object_r:polaris_smartctl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.fc
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
#
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#

/tmp/tmppub/interceptor(/.*)?                gen_context(system_u:object_r:polaris_pttcd_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris Cfg Policy Rules.</summary>

#################################################################
# Cfg files policy

## <summary>
Managecfg files (under /tmp/sw/cfg)
</summary>

## <param name="domain">
Domain allowed access.
</param>

interface('polaris_cfg_data_manage',

manage_dirs_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)
manage_lnk_files_pattern($1, polaris_cfg_data_t, polaris_cfg_data_t)

')

policy_module(polarisngiolite, 1.0);

generate('polarisngiolite_t;

polaris_btrace_data_manage(polarisngiolite_t)
polaris_crft_data_manage(polarisngiolite_t)
polaris_chasfs_manage(polarisngiolite_t)
polaris_tdlresolve_read(polarisngiolite_t)
polaris_tdldb_list_dirs(polarisngiolite_t)
polaris_cpld_read(polarisngiolite_t)
polaris_flashlib_read(polarisngiolite_t)
optional_policy(
  polaris_cpp_tmp_ifdev_use(polaris_ngiolite_t)
')

# In the file of radium_xcvr.c allow access to create and bind
# the socket using the API bnxt_impl_init_netlink.
allow polaris_ngiolite_t self:netlink_generic_socket { bind create setattr setopt };

# in iot platforms, ngiolite needs access to /proc/sys/net/ipv6/conf/mvsw/disable_ipv6
optional_policy(
  kernel_rw_net_sysctls(polaris_ngiolite_t)
  kernel_search_network_sysctls(polaris_ngiolite_t)
')

# PLEASE LOOK AT code should not use sysv IPC ARIs,
# instead POSIX variants must be used. Remove after
# code changed in proper way
# allow access sysv semaphore created by qfp process
ifdef(`crankshaft_family',`
  polaris_qfp_sem_use(polaris_ngiolite_t)
polaris_ggpio_dev_read_write(polaris_ngiolite_t)
polaris_dplr_dev_use(polaris_ngiolite_t)
')

ifdef(`fugazi_platform',`
polaris_qfp_sem_use(polaris_ngiolite_t)
')

# write access to /sys/bus/pci/rescan
dev_rw_sysfs(polaris_ngiolite_t)
# LOOK AT ME ngiolite does it through "echo 1 > /sys/bus/pci/rescan" seems to much
# to grunt shell and bin access just to write "1" string into the file
corecmd_exec_bin(polaris_ngiolite_t)
corecmd_exec_shell(polaris_ngiolite_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_ngiolite_t)

polaris_firmware_read(polaris_ngiolite_t)
polaris_udev_tmp_list_dirs(polaris_ngiolite_t)

# allow access to read the file cman rommon file.
polaris_proc_rmonbifo_getattr(polaris_ngiolite_t)
polaris_proc_rmonbifo_read(polaris_ngiolite_t)

allow polaris_ngiolite_t self:capability { net_admin sys_rawio };
# allow system time capability to check for system timeout
# while checking the state using API cwan_modem_check_ready_state
allow polaris_ngiolite_t self:capability sys_time;

# allow access to nim_xxd file created by cmcc
polaris_nim_xxd_tmp_open_unlink(polaris_ngiolite_t);

# ngiolite needs to work with /dev/sd /dev/sg devices to figure out disk driver
# paramters. drivers/userspace/nim_xxd library
storage_raw_read_fixed_disk(polaris_ngiolite_t)
storage_read_scsi_generic(polaris_ngiolite_t)
storage_write_scsi_generic(polaris_ngiolite_t)

polaris_sysfs_platform_dev_use(polaris_ngiolite_t)

# LOOK AT ME: ngiolite needs to work with /dev/ds31408, which is generic device_t now
gen_require('type device_t;
')
rw_chr_files_pattern(polaris_ngiolite_t, device_t, device_t)

# modprobe nim_dm dm_drv_log_level=0x01
ifdef('crankshaft_family','
modutils_domtrans_insmod(polaris_ngiolite_t)
')

polaris_smartctl_domtrans(polaris_ngiolite_t)

# utah_fpge_driver.c needs socket to configure interface parameters
allow polaris_ngiolite_t self:udp_socket create_socket_perms;

polaris_utility_domain_template(smartctl)
corecmd_exec_bin(polaris_smartctl_t)
corecmd_exec_shell(polaris_smartctl_t)

# allow access to polaris_cpp_tmpfs_t file
# Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
# The ngiolite init function calls the api ifdev_init
# to initialize shared memory control info.
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_smartctl_t)

logging_send_syslog_msg(polaris_smartctl_t)
fstools_domtrans(polaris_smartctl_t)

# runs tar /bin/tar -xvzf /firmware/MicronP400m-MTFDDAK200MAN.pkg -C /firmware
polaris_firmware_manage(polaris_smartctl_t)
files_getattr_all_dirs(polaris_smartctl_t)
files_read_all_symlinks(polaris_smartctl_t)

# work with /dev/sgX
storage_read_scsi_generic(polaris_smartctl_t)
storage_write_scsi_generic(polaris_smartctl_t)

allow polaris_smartctl_t self:capability { chown dac_override fowner fsetid }

type polaris_smartctl_tmp_t;
files_tmp_file(polaris_smartctl_tmp_t)
files_tmp_filetrans(polaris_smartctl_t, polaris_smartctl_tmp_t, file, "smart.pid")
manage_files_pattern(polaris_smartctl_t, polaris_smartctl_tmp_t, polaris_smartctl_tmp_t)

# script inherits stdout from ngiolite, needs permission to append to it
polaris_use_btrace_fifo(polaris_smartctl_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh55517)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_ngiolite_t)
')

ifdef(`sparrow_platform',`
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`blackheart_platform',`
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`cabo_platform',`
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

ifdef(`aventus_platform',`
  polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

ifdef(`crankshaft_family',`
  # allow scan pci/devices proc dir
# The ngiolite init function makes call to o2_cvmx_remote_open to
# open the remote library connection to cavium chip in FFP.
# The octeon library call invokes pci_get_device, which needs to
# access /proc.
kernel_getattr_proc_files(polaris_ngiolite_t)
kernels_write_proc_files(polaris_ngiolite_t)
kernels_read_system_state(polaris_ngiolite_t)

# allow access to /tmp/octeon-remote-lock-pci***
# This is required as part of ngiolite access of octeon chip.
# As part of the init, call is made to octeon_remote_lock()
# which requires access to the /tmp file.
polars_cm_fp_tmp_filetrans(polaris_ngiolite_t)
polars_cm_fp_tmp_manage(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies start##########
#################################################
# cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqmiX files
polars_qcqmi_dev_use(polaris_ngiolite_t)

# RDM thread in CWAN running as ngiolite process needs access to ttyUSB0 for DM logging
term_use_usb_ttys(polaris_ngiolite_t)

# RDM/Event thread needs to add a newly generated DM log file/ Crash dump file to/from bootflash directory
polars_bootflash_manage(polaris_ngiolite_t)

# Modem Monitor thread uses sendto over a Datagram socket to send data to Turing Thread
allow polaris_ngiolite_t self:unix_dgram_socket sendto;

# Modem Monitor thread opens a socket to UDEV to process Modem USB addition/disconnection events
allow polaris_ngiolite_t self:netlink_kobject_uevent_socket create_socket_perms;

# Modem Monitor thread needs to be able to open/Read and GetAttributes to differentiate between Telit/SWI vendor
udev_rw_db(polaris_ngiolite_t)

# Turing thread needs to gather stats as well as set the IP address to /proc/net/cwan_modem0/cwan0/src_ip
kernel_search_network_state(polaris_ngiolite_t)
polars_kernel_rw_network_state_files(polaris_ngiolite_t)

#################################################
## CWAN NGIOLITE process policies end############
#################################################

# on tsn need access to /sys/devices/platform/moka_fpga
# /sys/devices/platform/moka_fpga/external_int_pending dev
optional_policy(`
polaris_mokafpga_rw(polaris_ngiolite_t)

# on radium need to get model info
optional_policy(
polaris_dash_dev_use(polaris_ngiolite_t)
)

# work with contdev sysfs files
polaris_contdev_dev_read(polaris_ngiolite_t)

sysnet_domtrans_ifconfig(polaris_ngiolite_t)

logging_send_syslog_msg(polaris_ngiolite_t)

ifdef(`neptune_platform`,
polaris_cpp_cavium_sdk_ipc_use(polaris_ngiolite_t)
)

optional_policy(
polaris_nim_dm_dev_use(polaris_ngiolite_t)
)

ifdef(`radium_platform`,
# allow ngiolite to access nim_phy_device
polaris_nim_phy_dev_use(polaris_ngiolite_t)
)

# TODO/FIXME, Need to review this permission, this is related to
# the call "echo 1 > /sys/bus/pci/rescan"
dev_manage_sysfs_dirs(polaris_ngiolite_t)
allow polaris_ngiolite_t sysfs_t:file create;

# allow ngiolite to access sfp over i2c bus
polaris_i2c_use(polaris_ngiolite_t)

# on neptune, cavium library in o2_cavm_mem_map wants access to
# /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0/resource0
optional_policy(
polaris_cpp_cavium_dma_map(polaris_ngiolite_t)
)

# /dev/sfp-ktr & qfp sem access on Katar
ifdef(`katar_platform`,
polaris_sfp_katar_dev_use(polaris_ngiolite_t)
polaris_qfp_sem_use(polaris_ngiolite_t)
fs_getattr_tmpfs(polaris_ngiolite_t)
polaris_cpp_tmpfs_ifdev_rw(polaris_ngiolite_t)
# allow /usr/bin/os/bin/ngiolite to access /tmp/nim_xxd_present
gen_require(
    type polaris_cmrp_nim_xxd_tmp_t;
)
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_ngiolite_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

# allow /usr/bin/os/bin/ngiolite to access /tmp/hd_sz
gen_require(
    type udev_tmp_t;
)
read_files_pattern(polaris_ngiolite_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/lvm to be executed and to be operated
lvm_domtrans(polaris_ngiolite_t)

# allow /usr/bin/os/bin/ngiolite to manage /tmp
files_tmp_file(polaris_ngiolite_tmp_t)

# allow /usr/bin/os/bin/ngiolite to manage /tmp/smartctl.out and
#                                         /tmp/xxdisplay.out
files_tmp_filetrans(polaris_ngiolite_t, polaris_ngiolite_tmp_t, file)
manage_files_pattern(polaris_ngiolite_t, polaris_ngiolite_tmp_t, polaris_ngiolite_tmp_t)

# allow /usr/sbin/smartctl to operate on fsadm_exec_t
fstools_domtrans(polaris_ngiolite_t)

# allow /usr/sbin/smartctl to acess nvme device in chr and blk
dev_nvme_chr_files_manage(polaris_ngiolite_t)
dev_nvme_blk_files_manage(polaris_ngiolite_t)

ifdef(`sumatra_platform,'
    # dev/cpld
    polaris_cpld_dev_use(polaris_ngiolite_t)

    # manage "sysctrl_i2c.lck"
    gen_require(
        type polaris_cm_rp_tmp_t;
    )
    files_tmp_filetrans(polaris_ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
polaris_cm_rp_tmp_manage(polaris_ngiolite_t)

    # access /dev/huron_fpga
    polaris_huron_dev_use(polaris_ngiolite_t)
ifdef('crankshaft_family',
# /var/run/cwan socket and pid
  gen_require('t
    type polaris_cwan_svr_var_run_t;
  ')
files_pid_filetrans(polaris-ngiolite_t, polaris_cwan_svr_var_run_t, sock_file, "cwan_ezmanage_cwan_server")
create_sock_files_pattern(polaris-ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
delete_sock_files_pattern(polaris-ngiolite_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)
')

# allow /usr/binos/bin/ngiolite to access the the following interface
fs_unmount_xattr_fs(polaris-ngiolite_t)
dev_manage_generic_symlinks(polaris-ngiolite_t)
polaris_udev_tmp_manage(polaris-ngiolite_t)

# ngiolite/ezManage access rules - currently only applies to TSN
optional_policy('n
  # Allow ngiolite to access ezManage dgram socket
  gen_require('n
    type polaris_ezmanage_t;
  ')
  allow polaris-ngiolite_t polaris-ezmanage_t:unix_dgram_socket sendto;

  # Allow ngiolite to access ezManage socket file in /var/run
  polaris_manage_ezmanage_var_run_files(polaris-ngiolite_t)
  ')

# allow ngiolite to access /dev/nim_phy
ifdef('crankshaft_family',
polaris_nim_phy_dev_use(polaris-ngiolite_t)
')

# allow ioctl, read, wr permission for ds31408 device
optional_policy('d
  polaris_ds31408_dev_use(polaris-ngiolite_t)
  ')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.te
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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#
/tmp/ncsshd_bp.sock -s gen_context(system_u:object_r:polaris_dmi_ncsshd_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdfwd.fc
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#
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris vdaemon Policy Rules.</summary>

########################################
## <summary>
##      Write vdaemon /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_vdaemon_var_sock_write',`
   gen_require(`
      type polaris_vdaemon_t;
      type polaris_vdaemon_var_run_t;
      type var_run_t;

   `)
   write_sock_files_pattern($1, var_run_t, polaris_vdaemon_var_run_t)
   allow $1 polaris_vdaemon_t:unix_stream_socket { connectto };
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisboothelper, 1.0);

polaris_process_domain_template(boothelper_evt)

corecmd_exec_bin(polaris_boothelper_evt_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_boothelper_evt_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_boothelper_evt_t)

polaris_cpld_read(polaris_boothelper_evt_t)

# work with /tmp/udev/.
type polaris_udev_tmp_files_t;
files_tmp_file(polaris_udev_tmp_files_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_udev_tmp_files_t, dir, "udev")
polaris_bootflash_manage(polaris_boothelper_evt_t)

type polaris_boothelper_tmp_t;
files_tmp_file(polaris_boothelper_tmp_t)
files_tmp_filetrans(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, dir, "rommon_upgrade_ngwc")
manage_files_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
manage_dirs_pattern(polaris_boothelper_evt_t, polaris_boothelper_tmp_t, polaris_boothelper_tmp_t)
# watch over /tmp/rommon_upgrade_ngwc
allow polaris_boothelper_evt_t polaris_boothelper_tmp_t:dir watch;

# nyquist creates /tmp/udev_ssd.log
gen_require(
    type udev_t;
)
files_tmp_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")
fs_tmpfs_filetrans(udev_t, polaris_udev_tmp_files_t, file, "udev_ssd.log")

# create /dev/harddisk1 softlink during bootup
ifdef("crankshaft_family",
gen_require(
    type device_t;
    type initrc_t;
    type fixed_disk_device_t;
)
filetrans_pattern(initrc_t, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
)
# restorecon under setfiles_t appends to /tmp/udev_ssd.log

```c
   gen_require(
       type setfiles_t;
   )
polaris_udev_tmp_manage(setfiles_t)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

```c
   policy_module(polarisnmspd, 1.0);
   gen_require("
       type polaris_nmspd_t;
   ")
polaris_btrace_data_manage(polaris_nmspd_t)
polaris_crft_data_manage(polaris_nmspd_t)
polaris_chasfs_manage(polaris_nmspd_t)
polaris_tdlresolve_read(polaris_nmspd_t)
polaris_tldldb_list_dirs(polaris_nmspd_t)
polaris_cpld_read(polaris_nmspd_t)
polaris_lua_read(polaris_nmspd_t)
polaris_flashlib_read(polaris_nmspd_t)
polaris_ripc_sman_ui_serv_connect(polaris_nmspd_t)
polaris_db_tldldb_dir_use(polaris_nmspd_t)
```

# mqipc manual, one that missing in platform tdl file

```c
type polaris_nmspd_testclient1_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient1_mqipc_t)

type polaris_nmspd_testclient2_mqipc_t;
polaris_mqipc_type(polaris_nmspd_testclient2_mqipc_t)

type polaris_testclient1_nmspdmqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspdmqipc_t)
```
type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient1_mqipc_t, nmspd-testclient1)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient1_nmspd_mqipc_t)

polaris_mqipc_create_name(polaris_nmspd_t, polaris_nmspd_testclient2_mqipc_t, nmspd-testclient2)
polaris_mqipc_use(polaris_nmspd_t, polaris_testclient2_nmspd_mqipc_t)

#stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_nmspd_t)
polaris_socketat_nsfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenet_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

allow polaris_nmspd_t self:capability dac_overide;

# Allow IPC messages to Btrace Process from NMSPD Process
logging_send_syslog_msg(polaris_nmspd_t)
# Allow NMSPD to read DNS file for nameresolution
sysnet_read_config(polaris_nmspd_t)

# NMSPD uses cURL to open HTTP coonections and SSL to open TLS Connections
# to DNASpaces and CMX respectively
gen_require('
    type node_t;
    )
allow polaris_nmspd_t node_t:udp_socket node_bind;
allow polaris_nmspd_t self:udp_socket { bind connect getattr }
corenet_tcp_connect_http_port(polaris_nmspd_t)
polaris_odm_clnt2svr_mqipc_create(polaris_nmspd_t)

#DB persistance
polaris_tdldbpersist_setup(polaris_nmspd_t)
polaris_tmp_tdldb_persist_setup(polaris_nmspd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polarisftm, 1.0);
gen_require(
    type polaris_ftm_t;
)
polaris_chasfs_manage(polaris_ftm_t)
polaris_cpld_read(polaris_ftm_t)
polaris_flashlib_read(polaris_ftm_t)
polaris_tdlresolve_read(polaris_ftm_t)
polaris_ripc_sman_ui_serv_connect(polaris_ftm_t)
polaris_db_tdlldb_dir_use(polaris_ftm_t)
logging_send_syslog_msg(polaris_ftm_t)
corecmd_exec_bin(polaris_ftm_t)
corecmd_exec_shell(polaris_ftm_t)
auth_use_nsswitch(polaris_ftm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ftm_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_ftm_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_ftm_t)

polaris_cedge_reset_ns(polaris_ftm_t)

# /var/run/ftmd-xxx sockets and pid
type polaris_ftm_var_run_t;
files_pid_file(polaris_ftm_var_run_t)
manage_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
manage_sock_files_pattern(polaris_ftm_t, polaris_ftm_var_run_t, polaris_ftm_var_run_t)
files_pid_filetrans(polaris_ftm_t, polaris_ftm_var_run_t, { file sock_file })
polaris_cfgmgr_var_sock_write(polaris_ftm_t)
polaris_dbg_var_sock_write(polaris_ftm_t)
polaris_fpm_var_sock_write(polaris_ftm_t)
polaris_ttm_var_sock_write(polaris_ftm_t)
polaris_vdaemon_var_sock_write(polaris_ftm_t)

# PLEASE LOOK AT ME: write access to /boot/hugepage.conf
# which on ultra translates into /varied/hugepage.conf access
# But no code in polaris uses it
polaris_disk_varied_manage(polaris_ftm_t)
files_manage_boot_files(polaris_ftm_t)
# fp_scaling_init calls posix_sysconf
dev_read_sysfs(polaris_ftm_t)

# vip_execute_nowait uses setpgid
allow polaris_ftm_t self:process setgid;

polaris_cedge_tmpfs_manage(polaris_ftm_t)

# raw socket access from trace_tunnel_socket_icmp_init ftm_binos_trace.c
allow polaris_ftm_t self:rawip_socket create_socket_perms;
allow polaris_ftm_t self:capability net_raw;

# bind to ftm fnf port
corenent_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenent_udp_bind_generic_node(polaris_ftm_t)

# ftm may create vrf-based netns on demand, vrf.65528
polaris_vrf_netns_manage(polaris_ftm_t)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_ftm_t)
')

# fp_scaling_read_core_count accesses cgroups file at
#/sys/fs/cgroup/cpuset/iosxe_control_processes/cpuset.cpus
fs_read_cgroup_files(polaris_ftm_t)

# ftm_change_default_gw_src_ip calls ip utility
sysnet_domtrans_ifconfig(polaris_ftm_t)

# ftm process periodically call nice utility to gzip some xml file
allow polaris_ftm_t self:process setsched;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.te
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#
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### <summary>Polaris fman_fp Policy Rules.</summary>
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/tmp/replication(/.*)? gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

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## <summary>Polaris Btrace Policy Rules.</summary>

# Polaris cpp (ultra)

## <summary>
## Work (read, write, ioctl) with /dev/cpp_dev_info and /dev/cpp_vxe_rsre
## devices.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface(`polaris_cpp_dev_use`,
  gen_require(`
    type device_t;
type polaris_cpp_device_t;
  `)
  write_echr_files_pattern($1, device_t, polaris_cpp_device_t)
read_chr_files_pattern($1, device_t, polaris_cpp_device_t)
allow $1 polaris_cpp_device_t:chr_file map;
polaris_i95_dev_use($1)
')

####################################################
## <summary>
##  Make the specified domain as polaris cpp process.
## </summary>
## <param name="type">
##  Type to be used as a cpp process.
## </param>
#
interface(`polaris_cpp_domain',
    gen_require(
        attribute polaris_cpp_domain;
    ')
)
typeattribute $1 polaris_cpp_domain;
')

####################################################
## <summary>
##  Make the specified domain able to use cpp /tmp files.
## </summary>
## <param name="type">
##  Domain allowed access.
## </param>
## <param name="object">
##  File name in /tmp that domains creates and other cpp process
##  access.
## </param>
#
interface(`polaris_cpp_tmp_files_use',
    gen_require(
        type polaris_cpp_tmp_t;
    ')
)
files_tmp_filetrans($1, polaris_cpp_tmp_t, file, $2)
manage_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
')
### <summary>
Specified domain can execute polaris_cpp_tmpfs_exec_t code which resides in /dev/shm/cpp_ucode_dram
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface('polaris_cpp_tmpfs_exec',
gen_require('
    type polaris_cpp_tmpfs_exec_t;
')

allow $1 polaris_cpp_tmpfs_exec_t:file execute;
')

### <summary>
Read write from polaris_cpp_tmpfs_t file
Example is ifdev shared memory /dev/shm/cpp_ifdev_shmem
</summary>

### <param name="domain">
Domain allowed access.
</param>

interface('polaris_cpp_tmpfs_ifdev_rw',
gen_require('
    type tmpfs_t;
    type polaris_cpp_tmpfs_t;
')

rw_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
allow $1 polaris_cpp_tmpfs_t:file map;
')

### <summary>
Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and /tmp/cpp_ifdev_req pipe files.
</summary>

### <param name="type">

## <summary>
## Domain allowed access.
## </summary>
#
# interface('polaris_cpp_tmp_ifdev_use',
    gen_require(
        type polaris_cpp_tmp_t;
    ')

manage_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
allow $1 polaris_cpp_tmp_t:file map;
')

########################################
## <summary>
## Make the specified domain able to getattr of /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
# interface('polaris_cpp_tmp_ifdev_getattr',
    gen_require(
        type polaris_cpp_tmp_t;
    ')

getattr_fifo_files_pattern($1, tmp_t, polaris_cpp_tmp_t)
')

########################################
## <summary>
## Allow process to use Cavium SDK sysv IPC primitives
## created by octeon_pci_dmap.c. Those could be created either
## by cpp_driver (usually) or by cpp_cdm on utah and overlord,
## and by cm_fp on neptune.
## </summary>
## <param name="type">
## Domain allowed access.
## </param>
#
# interface('polaris_cpp_cavium_sdk_ipc_use',

ifdef('crankshaft_family',
  polaris_cpp_driver_sem_use($1)
polaris_cpp_driver_shm_use($1)
optional_policy('polaris_cpp_cdm_sem_use($1)
polaris_cpp_cdm_shm_use($1)
')
optional_policy('polaris_cm_fp_sem_use($1)
polaris_cm_fp_shm_use($1)
')
# allow scan pci/devices proc dir
kernel_getattr_proc_files($1)
kernell_write_proc_files($1)
kernell_read_system_state($1)
')

###################################################################
## <summary>
## Work (read, write, ioctl) with /dev/i95 devices
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_i95_dev_use','
  gen_require('type device_t;
type polaris_i95_device_t;
')
write_chr_files_pattern($1, device_t, polaris_i95_device_t)
read_chr_files_pattern($1, device_t, polaris_i95_device_t)
allow $1 polaris_i95_device_t:chr_file map;
')

###################################################################
## <summary>
## Work (read, write, map) with sysfs files required
## by cavium library in o2_cavm_mem_map.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_cpp_cavium_dma_map',
  gen_require(
    type sysfs_t;
  ))

mmap_files_pattern($1, sysfs_t, sysfs_t)
dev_rw_sysfs($1)
')

#######################################
## <summary>
##      Manage /dev/shm files
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_cpp_tmpfs_manage',
  gen_require(
    type polaris_cpp_tmpfs_t;
    type tmpfs_t;
  ))

fs_tmpfs_filetrans($1, polaris_cpp_tmpfs_t, file)
manage_files_pattern($1, tmpfs_t, polaris_cpp_tmpfs_t)
allow $1 polaris_cpp_tmpfs_t:file map;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.if
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#

## <summary>Polaris bt_logger Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtlogger.if
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#
# August 2017, Shawn Lu
#
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#

# /bootflash labels
/bootflash(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?   gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\.pub   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key   gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?   gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?   gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf   gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf   gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /csl_p_0
/csl_p_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)?   gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /ofbl is separate on qwlc
/ofbl(/.*)?   gen_context(system_u:object_r:polaris_ofbl_data_t,s0)

# /varied
/varied(/.*)?   gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info   gen_context(system_u:object_r:polaris_vwlciinstall_info_t,s0)
/varied/ofbl.*   gen_context(system_u:object_r:polaris_ofbl_data_t,s0)
/varied/grub_cisco_version   gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)?   gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)?   gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/grub/menu.*   gen_context(system_u:object_r:bootloader_etc_t,s0)
/sbin/grub*   gen_context(system_u:object_r:bootloader_exec_t,s0)

# /grubenv
/bootefi(/.*)?   gen_context(system_u:object_r:polaris_grub_efi_t,s0)
# hanet driver used by vwlc and ultra, is there better place for it?
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /harddisk labels (qwlc)
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/epa device on qwlc
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on qwlc
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/astro on qwlc
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/cpp_il on qwlc
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

# /flash is symbolic link to /bootflash on qwlc
/flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /dev/obevfc on qwlc
/dev/obevfc -c gen_context(system_u:object_r:polaris_obevfc_device_t,s0)

# /dev/sfp-ktr on katar
/dev/sfp-ktr -c gen_context(system_u:object_r:polaris_sfp_katar_device_t,s0)

# To store tcpdump output in file haIntCaptureLo.pcap
/bootflash/haIntCaptureLo.pcap gen_context(system_u:object_r:polaris_netutils_data_t,s0)
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)

# /config labels
/config(/.*)? gen_context(system_u:object_r:polaris_disk_config_t,s0)
/config/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
dnl

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dnl
WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 7)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_ripc_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set(`fp', `elastic', BPROC_WNCD, 7)

_policy_module(polariswebui, 1.0);

type polaris_webui_file_t;
files_type(polaris_webui_file_t)
polaris_pfile_type(polaris_webui_file_t)

polaris_process_domain_template(webui_lighttpd)

polaris_process_domain_template(webui)

gen_require(' 
    type initrc_t;
')

manage_dirs_pattern(initrc_t, polaris_webui_file_t, polaris_webui_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.te
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policy_module(polariscmrp, 1.0);

gen_require(' 
    type polaris_cm_rp_t;
')

polaris_btrace_data_manage(polaris_cm_rp_t) polaris_crft_data_manage(polaris_cm_rp_t) polaris_chasfs_manage(polaris_cm_rp_t) polaris_tdlresolve_read(polaris_cm_rp_t) polaris_tlcldb_list_dir(polaris_cm_rp_t) polaris_cpld_read(polaris_cm_rp_t) polaris_lua_read(polaris_cm_rp_t) polaris_flashlib_read(polaris_cm_rp_t) polaris_flashlib_write(polaris_cm_rp_t)

# cm_rp opens log file to collect required RP, CC, FP and rommon details # and write into /vol/harddisk/.inv/inv_log_file # This file is accessed by crashinfo collecting script and others

type polaris_cm_rp_inv_log_file_t;
polaris_disk_type(polaris_cm_rp_inv_log_file_t) polaris_cm_rp_inv_log_setup(polaris_cm_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cm_rp_t)
polaris_cpld_dev_use(polaris_cm_rp_t)
polaris_lfts_dev_use(polaris_cm_rp_t)
polaris_proc_rmonbifo_read(polaris_cm_rp_t)
polaris_obfl_data_read(polaris_cm_rp_t)

polaris_db_tldldb_dir_use(polaris_cm_rp_t)
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)
allow polaris_cm_rp_t self:capability { sys_rawio dac_override chown sys_resource};

allow polaris_cm_rp_t self:process setsched;

# on ultra read eeprom through i2c
# type=AVC msg=audit(1479569571.044:3): avc: denied {getattr} for pid=5283 comm="cmand"
path="/sys/devices/i2c-0/i2c-1/1-0056/eeprom" dev="sysfs" ino=25556
scontext=system_u:system_r:polaris_cm_rp_t:s0 tcontext=system_u:object_r:sysfs_t:s0 tclass=file
# type=AVC msg=audit(1479569571.045:4): avc: denied {read write} for pid=5283 comm="cmand"
nname="eeprom" dev="sysfs" ino=25556 scontext=system_u:system_r:polaris_cm_rp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
dev_RW_sysfs(polaris_cm_rp_t)
polaris_ggpio_dev_read_write(polaris_cm_rp_t)

# accessing obfl files like /obfl/obfl_uptime_v2.log
polaris_bootflash_read(polaris_cm_rp_t)
polaris_obfl_data_manage(polaris_cm_rp_t)
corecmd_exec_shell(polaris_cm_rp_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_cm_rp_t)

# cman_data_chasfs_mgmt_eth_override (cman/rp/src/cman_data.c:1096) tries to do
# ioctl(sk, SIOCGIFHWADDR, &ifr) for "eth2", which is not present on ultra, but
# such ioctl in kernel triggers dev_load attempt in kernel. Since interface
# and module does exist anyway, it is OK to deny it
kernel_dontaudit_request_load_module(polaris_cm_rp_t)

# cmand creates udp socket to get interface hw address cmlib_if_config_addr
allow polaris_cm_rp_t self:udp_socket create_socket_perms;

# dyncfg_setup.sh is started by cmand
polaris_dyncfg_domtrans(polaris_cm_rp_t)
polaris_dyncfg_tmp_read(polaris_cm_rp_t)
# on crankshaft cm_rp does init directly
polaris_dyncfg_setup(polaris_cm_rp_t)
# denied { search read open } subject: polaris_cm_rp_t; object: polaris_disk_varied_t
# name="/" dev="sda5"; path="/varied"
polaris_disk_varied_manage(polaris_cm_rp_t)

#allow polaris_cm_rp_t polaris_udev_tmp_files_t:dir { read search };
polaris_udev_tmp_list_dirs(polaris_cm_rp_t)

# LOOK AT ME: /tmp/rp/chasfs/inventory has symbolic links back to
# /bootflash/core/modules and /bootflash/tracelogs/modules cman_inv_restart_init
# calls chasfs_properties_internal over this node and as result it tries to
# access those directories
polaris_core_file_search(polaris_cm_rp_t)
polaris_disk_bootflash_search(polaris_cm_rp_t)
polaris_btrace_persistent_data_search(polaris_cm_rp_t)

polaris_dyncfg_tmp_manage(polaris_cm_rp_t)

ifdef(`mcp_family',
polaris_scooby_dev_use(polaris_cm_rp_t)
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
polaris_spa_dev_use(polaris_cm_rp_t)
')

# temporary files created for repm in /tmp/replication
type polaris_cm_rp_tmp_t;
files_tmp_file(polaris_cm_rp_tmp_t)
gen_require(
    type tmp_t;
    )
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sysctrl_i2c.lck")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pfu_oirtime.lock")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "golden_boot")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "sr_message_debug.txt")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "ngwe_sudi_auth_done")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "codesign.txt")
polaris_cm_rp_tmp_manage(polaris_cm_rp_t)

logging_send_syslog_msg(polaris_cm_rp_t)

# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_rp_t)
dev_getattr_sysfs_fs(polaris_cm_rp_t)

# /var files
gen_require(
    type var_log_t;
type polaris_cm_rp_var_log_t;
logging_log_file(polaris_cm_rp_var_log_t)
logging_log_filetrans(polaris_cm_rp_t, polaris_cm_rp_var_log_t, "obfl_uptime_v2.log")
manage_files_pattern(polaris_cm_rp_t, var_log_t, polaris_cm_rp_var_log_t)

# needed for "show platform hardware slot R0 eobc interface primary status"
kernel_read_network_state(polaris_cm_rp_t)

###########################################################################
# show platform hardware slot R0 pcie status
# mcp_pcie_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_pcie_status_cmd.sh
###########################################################################
polaris_utility_domain_template(pcie_status_cmd)
polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_pcie_status_cmd_t, polaris_pcie_status_cmd_exec_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_pcie_status_cmd_t)

# "lspci" needs access to files like /sys/devices/pci0000:00/0000:00:00.0/resource
dev_read_sysfs(polaris_pcie_status_cmd_t)
polaris_send_signal_to_bexecute(polaris_cm_rp_t)

# need write/getattr access for pipes like "pipe:[118396]"
polaris_cmrp_use_fifo(polaris_pcie_status_cmd_t)
corecmd_exec_bin(polaris_pcie_status_cmd_t)

# on utah need to get model info
optional_policy(`
    polaris_dash_dev_use(polaris_cm_rp_t)
    polaris_nios_dev_use(polaris_cm_rp_t)
``
)

# access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform`,`
    polaris_dash_dev_mcp_use(polaris_cm_rp_t)
``
)
ifdef(`crankshaft_family`,`
polaris_quack_dev_use(polaris_cm_rp_t)
``
)
ifdef('sparrow_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef('blackheart_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef('cabo_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
')

ifdef('aventus_platform',
polaris_cm_cc_tmpfs_manage(polaris_cm_rp_t)
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef('qwlc_platform',
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef('katar_platform',
polaris_quack_dev_use(polaris_cm_rp_t)
')

ifdef('wlc_family',
etuutils_domtrans_ping(polaris_cm_rp_t)
')

ifdef('ngwc_family',
# In cman_rp module fips/entropy component
# calls cman_ngwc_tam_platform_get_act2_entropy() to
# retrieve entropy from ACT2 chip.
polaris_act2_dev_use(polaris_cm_rp_t)

# cman-rp init needs access to quack chip
polaris_quack_dev_use(polaris_cm_rp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_cm_rp_t)

#on macallan and nyquist cman_rp needs access /flash<#>/lic0/sudi_cert_data_v3
polaris_disk_license_read(polaris_cm_rp_t)

#on macallan and starfleet cli "show firmware version lan_spi" triggers ethtool usage
sysnet_domtrans_ifconfig(polaris_cm_rp_t)
')
# cman-rp needs to read /tmp/fed_post_result and /tmp/sm_post_result
# on ngwc platforms
optional_policy('polaris_fed_tmp_files_read(polaris_cm_rp_t)')
optional_policy('polaris_sif_mgr_tmp_files_read(polaris_cm_rp_t)')

ifdef('starfleet_platform',
polaris_dmammap_dev_use(polaris_cm_rp_t)
')

ifdef('nyquist_platform',
polaris_ngwc shm manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap dev use(polaris_cm_rp_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)

files tmp filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files tmp filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files tmp filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# executes tar for microcode
allow polaris_cm_rp_t self: capability { fowner fsetid };
')

ifdef('radium_platform',
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)
')

ifdef('sumatra_platform',
# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_cm_rp_t)

# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
polaris_dev_mem use(polaris_cm_rp_t)
# access huron FPGA
polaris_huron dev use(polaris_cm_rp_t)
')

ifdef('quake_platform',

polaris_ngwc_shm_manage(polaris_cm_rp_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_cm_rp_t)

files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, dir, "microcode_update")
files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "mcu_upgrading")

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvnn48950 is fixed using CSCvnn48953
ifdef(‘nyquist_platform’, ‘
polaris_dev_mem_use(polaris_cm_rp_t)
’)

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvnn64182 is fixed using CSCvnn64184
ifdef(‘quake_platform’, ‘
polaris_dev_mem_use(polaris_cm_rp_t)
’)

# CL1: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cmand) invoking
# "/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/dash_fpga_xaui.py show".
# The python script dash_fpga_xaui.py runs in polaris_bexecute_t domain
# and as part of its functionality it needs to create an UDP socket and make an ioctl call.
polaris_utility_domain_template(dash_fpga_xaui)
polaris_bexecute_domain(polaris_dash_fpga_xaui_t, polaris_dash_fpga_xaui_exec_t)
polaris_cmrp_use_fifo(polaris_dash_fpga_xaui_t)
allow polaris_dash_fpga_xaui_t self:udp_socket { create ioctl }

# CL1: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman_cl_show_cpu_share_callback in binos/cman/rp/src/cman_cli.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/ioxsxe_control_processes/cpu.shares
fs_read_cgroup_files(polaris_cm_rp_t)
fs_list_cgroup_dirs(polaris_cm_rp_t)

# on tsn need access to /dev/moka_fpga
optional_policy('polaris_mokafpga_dev_use(polaris_cm_rp_t)
')

optional_policy('polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
')

optional_policy('polaris_mokafpga_read(polaris_cm_rp_t)
')

optional_policy('polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)
')

optional_policy('polaris_dev_mem_use(polaris_cm_rp_t)
')

optional_policy('polaris_kgv_data_manage(polaris_cm_rp_t)
')

optional_policy('polaris_quake_i2c_manage(polaris_cm_rp_t)
')

ifdef('qwlc_platform',
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
')

ifdef('katar_platform',
# read/write /dev/ds3100 chr device
dev_rw_generic_chr_files(polaris_cm_rp_t)
# Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

ifdef(`mcp_family',
# Read access to /tmp/ldwm_envelope file
polaris_ldwm_envelope_read(polaris_cm_rp_t)
')

#/dev/luna_fpga on qwlc
optional_policy(
  polaris_luna_mbfpga_dev_use(polaris_cm_rp_t)
')

# open /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_rp_t)

optional_policy(
  polaris_ngwc_scc_shm_manage(polaris_cm_rp_t)
')

ifdef(`ngwc_family',
# on nyquist in ngwc_update_member_config nvram_config is
# copied from /tmp/chassis/local/rp/tam/00001.nvram_config
polaris_nvram_manage(polaris_cm_rp_t)
# CMAN needs to create nvram_config with the right label instead of bootflash_t
  gen_require(
    type polaris_nvram_file_t;
    type polaris_disk_bootflash_t;
  )
  filetrans_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_nvram_file_t, file, "nvram_config")
')

# CMANRP needs to create right label instead of bootflash_t
type polaris_user_file_t;
files_type(polaris_user_file_t);
polaris_bootflash_filetrans(polaris_cm_rp_t, polaris_user_file_t, file);
manage_files_pattern(polaris_cm_rp_t, polaris_disk_bootflash_t, polaris_user_file_t)

# on virtual platforms cman reads virtual sudi file /csl_p_0/vudi.pri
ifdef(`vxe_family',
polaris_disk_csl_read(polaris_cm_rp_t)
')
ifdef(`wlc_family',
polaris_disk_csl_read(polaris_cm_rp_t)
')
# from cman_util_chasfs_watch_stby_harddisk
polaris_udev_tmp_watch(polaris_cm_rp_t)

# watch read over /tmp/chassis/local/rp/tam by cman_nyq_board_auth_init
polaris_chasfs_watch_read(polaris_cm_rp_t)

# /dev/aikido access
polaris_aikido_dev_use(polaris_cm_rp_t)

# access SERDES /tmp/serdes_asic_key_dir/*
optional_policy('polaris_serdes_asic_key_tmp_manage(polaris_cm_rp_t)')

# run /sbin/hwclock in its own domain
clock_domtrans(polaris_cm_rp_t)

ifdef('crankshaft_family',
    # modprobe sm_nim_adpt.ko for Switzer-CC
    modutils_domtrans_insmod(polaris_cm_rp_t)
    # /dev/sm_nim_adpt device files for Switzer-CC
    polaris_sm_nim_adpt_dev_use(polaris_cm_rp_t)

    # “show platform hardware subslot <slot/card> backplane statistics”
    # triggers ethtool with ifconfig_t using fifo_file (pipe) on polaris_cm_rp_t.
    gen_require('type ifconfig_t;
    ')
    polaris_cmrp_use_fifo(ifconfig_t)
    ')

polaris_iosd_vcpu_read(polaris_cm_rp_t)

*******************************************************************************
# show platform hardware slot R0 fpga
# mcp_fpga_status_cmd.sh
# /bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_fpga_status_cmd.sh
*******************************************************************************

polaris_utility_domain_template(fpga_status_cmd)

polaris_bexecute_domtrans(polaris_cm_rp_t)
polaris_bexecute_domain(polaris_fpga_status_cmd_t, polaris_fpga_status_cmd_exec_t)
polaris_cmrp_use_fifo(polaris_fpga_status_cmd_t)

auth_use_nsswitch(polaris_fpga_status_cmd_t)
corecmd_exec_bin(polaris_fpga_status_cmd_t)
# PLEASE LOOK AT ME: /sys/devices/platform/nios should have Cisco specific label
# read content under /sys/devices/platform/nios
dev_read_sysfs(polaris_fpga_status_cmd_t)

ifdef(`sparrow_platform',
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`cabo_platform',
polaris_dio_dev_use(polaris_cm_rp_t)
')

ifdef(`starfleet_platform',
polaris_fpga_upgrade_tmp_use(polaris_cm_rp_t)
')

type polaris_fpga_upgrade_tmp_t;
files_tmp_file(polaris_fpga_upgrade_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_fpga_upgrade_tmp_t, file, "fpga_upgrade")
# cman_rp needs read access to cpu identity
# /dev/cpu/0/msr
dev_read_cpuid(polaris_cm_rp_t)

# cman_rp needs read/write access to cpu msr
# /dev/cpu/0/msr
# following definition provides that
dev_rw_cpu_microcode(polaris_cm_rp_t)

type polaris_cmrp_nim_xxd_tmp_t;
files_tmp_file(polaris_cmrp_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, file, "nim_xxd")
manage_files_pattern(polaris_cm_rp_t, polaris_cmrp_nim_xxd_tmp_t, polaris_cmrp_nim_xxd_tmp_t)

ifdef(`2kp_platform',
# blzi device
polaris_blzi_dev_use(polaris_cm_rp_t)
')

# tamlib debug file access
polaris_tamlib_dbg_file_manage(polaris_cm_rp_t)

ifdef(`wlc_family',
# tcpdump access for RP
# packet dump is stored in file /bootflash/haIntCaptureLo.pcap
  type polaris_netutils_data_t;
polaris_pfile_type(polaris_netutils_data_t)
gen_require(`
type polaris_disk_bootflash_t;
  type netutils_t;
')
  filetrans_pattern(netutils_t, polaris_disk_bootflash_t, polaris_netutils_data_t, file, "haIntCaptureLo.pcap")
  manage_files_pattern(netutils_t, polaris_netutils_data_t, polaris_netutils_data_t)

# tcpdump access
  netutils_run(polaris_cm_rp_t, system_r)

# pidof access
  dev_read_sysfs(polaris_cm_rp_t)
  kernel_read_system_state(polaris_cm_rp_t)
  domain_read_all_domains_state(polaris_cm_rp_t)

# /usr/sbin/ethtool access for show platform hardware slot x ha_port interface stats command
  sysnet_domtrans_ifconfig(polaris_cm_rp_t)
  )

optional_policy(
  polaris_ds31408_dev_use(polaris_cm_rp_t)
  )

  polaris_ddr_dev_use(polaris_cm_rp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
  fstools_exec(polaris_cm_rp_t)

# allow acces to /tmp/cmlib_eeprom_sim_smartctl.out
  files_tmp_filetrans(polaris_cm_rp_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
  dev_nvme_chr_files_manage(polaris_cm_rp_t)
  dev_nvme_blk_files_manage(polaris_cm_rp_t)

#DB persistence
  polaris_tdldbpersist_setup(polaris_cm_rp_t)
  polaris_tmp_tdldb_persist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmand
  polaris_code_verify_domtrans(polaris_cm_rp_t)

ifdef(‘ngwc_family’,
  # SELINUX Mismatch warning when doing power redundancy configuration commands
  # Allow access /bootflash/nplusm-power
  polaris_nplusm_power_manage(polaris_cm_rp_t)
  )

ifdef(‘crankshaft_family’,

# For USB disable feature, /sys/bus/usb/drivers/usb/*/authorized is accessed
gen_require(
  type sysfs_t;
')
allow polaris_cm_rp_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_cm_rp_t)
')

ifdef('petra_platform',
#allow access to /dev/petra-fpga
polaris_iots_fpga_dev_use(polaris_cm_rp_t)
#allow access to /flash6/moncfg/cfg.dat
polaris_nvram_read(polaris_cm_rp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl divert(-1)

include(`polaris_process.m4')
dnl Stub out plaris process
define(`polaris_process',"")

dnl Stub out mqipc
define(`polarismqipc_service_server',"")
define(`polarismqipc_service_client',"")
define(`polarismqipc_service_server_elastic_client',"")

dnl Stub out lipc
define(`polaris_lipc_service_server',"")
define(`polaris_lipc_service_client',"")

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_if.m4')

dnl Stub out non existent one
define(`polaris_websocket_service_server',"")
define(`polaris_cipc_service_server',"")

include(`polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
## <summary>Polaris Platform Base IPC Policy Rules.</summary>
## <required val="true">
##      Needed for each polaris platform
## </required>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_if.m4
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky
#  
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#

policy_module(polarisplogd, 1.0);

gen_require(
   
   type polaris_plogd_t;

)

polaris_btrace_data_manage(polaris_plogd_t)
polaris_crft_data_manage(polaris_plogd_t)
polaris_chasfs_manage(polaris_plogd_t)
polaris_tdlresolve_read(polaris_plogd_t)
polaris_tdldb_list_dirs(polaris_plogd_t)
polaris_cpld_read(polaris_plogd_t)
polaris_flashlib_read(polaris_plogd_t)
polaris_ripc_sman_ui_serv_connect(polaris_plogd_t)

# originally when box starts /dev/log is symbolic link to /run/systemd/journal/dev-log
# but latter plogd reset links to its own socket: make sure that we have proper
# transition

gen_require(
   
   type devlog_t;
       type syslogd_t;

)

allow polaris_plogd_t devlog_t:sock_file manage_sock_file_perms;
allow polaris_plogd_t devlog_t:lnk_file manage_link_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")

# make sure that unix_dgram_socket got transitioned into syslogd_t
# transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
# # autogen script misses connection between plogd
# polaris_rpc_plog_serv_connect(polaris_plogd_t)
#
# why plogd needs dac_override capability?
# allow polaris_plogd_t self:capability { dac_override };
# allow polaris_plogd_t self:capability2 block_suspend;
#
# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ
# /dev/log is symbolic link to /run/systemd/journal/dev-log
#
# need ability to search in init_var_run_t /run/systemd
# /dev/log is symbolic link to /run/systemd/journal/dev-log
# need ability to search in init_var_run_t /run/systemd
# some of subjects that use syslog may not have it

gen_require(`
  type journalctl_t;
)
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# # plogd calls stdbuf to set up journalctl buffering
corecmd_exec_bin(polaris_plogd_t)
# # writes into pman fifo stdout
polaris_use_btrace_fifo(journalctl_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

# polaristamsrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris ftm Policy Rules.</summary>

# Write ttm /var/run socket file

### <summary>
## Domain allowed access.

### </summary>

# interface('polaris_ftm_var_sock_write',
  gen_require(
    type polaris_ftm_t;
    type polaris_ftm_var_run_t;
    type var_run_t;
  )
  write_sock_files_pattern($1, var_run_t, polaris_ftm_var_run_t)
  allow $1 polaris_ftm_t:unix_stream_socket { connectto };
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.if
No license file was found, but licenses were detected in source scan.
/usr/bin/os/conf/iptbl.sh -- gen_context(system_u:object_r:polaris_iptbl_exec_t,s0)
/tmp/rp/iptbl -d gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/rp/iptbl/inot_fifo -p gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

# in polaris we have xtables-multi at wrong location
/usr/bin/xtables-multi -- gen_context(system_u:object_r:iptables_exec_t,s0)

#fman (rp/fp) acl mgmt and iptbl modules dependency
/tmp/iptbl.v4 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)
/tmp/iptbl.v6 gen_context(system_u:object_r:polaris_iptbl_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.fc
No license file was found, but licenses were detected in source scan.

## <summary>Polaris cpp_sp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if
No license file was found, but licenses were detected in source scan.

# polarisngwctblmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

/tmp/sysctrl_i2c.lck gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/ pfu_oirtime.lock gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)
/tmp/golden_boot gen_context(system_u:object_r:polaris_cm_rp_tmp_t,s0)

# dash_fpga_xaui.py is the backend python code for
# the cli "show platform hardware slot R0 xaui statistics"
/usr/binos/conf/dash_fpga_xaui.py -- gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/binos/hin/cmand_us -- gen_context(system_u:object_r:polaris_cm_rp_exec_t,s0)
# relabel /vol/harddisk/.inv
/vol/harddisk/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)
/vol/harddisk_internal/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

# .inv dir is in /bootflash in Katar eWLC
/bootflash/.inv(/.*)? gen_context(system_u:object_r:polaris_cm_rp_inv_log_file_t,s0)

/usr/binos/conf/mcp_fpga_status_cmd.sh -- gen_context(system_u:object_r:polaris_fpga_status_cmd_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.fc
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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## <summary>Polaris rrm_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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### <summary>Polaris LIPC Policy Rules.</summary>

# LIPC policy

### <summary>Polaris LIPC Policy Rules.</summary>

### <summary>
## Manage lipc files
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### <rolebase/>

interface('polaris_lipc_manage',`
gen_require(`
type polaris_lipc_t;
`)
manage_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_link_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
manage_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
`)

### <summary>
## Getattr of lipc files directories
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### <rolebase/>

interface('polaris_lipc_getattr',`
gen_require(`
type polaris_lipc_t;
`)
getattr_dirs_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_lnk_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_fifo_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
getattr_sock_files_pattern($1, polaris_lipc_t, polaris_lipc_t)
')

##############################
## <summary>
##      Create lipc file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed creating lipc channel.
##      </summary>
## </param>
## <param name="channel_domain">
##      <summary>
##      Domain assigned to lipc channel.
##      </summary>
## </param>
## <param name="channel_name">
##      <summary>
##      File name of lipc channel.
##      </summary>
## </param>
#
interface(`polaris_lipc_create_name',
gen_require(`
type polaris_lipc_t;
')
type_transition $1 polaris_lipc_t : sock_file $2 $3;
manage_sock_files_pattern($1, polaris_lipc_t, $2)

polaris_socketat_nsfs_read($1)

#      not specific enough
#      type_transition $1 $1 : unix_stream_socket $2;
#      allow $1 $2:unix_stream_socket { listen accept bind create write read };
')

##############################
## <summary>
##      Write lipc file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to connect and write into lipc file.
##      </summary>
## <param>
## <param name="channel_domain">
##   <summary>
##   Domain assigned to lipc channel.
##   </summary>
## </param>
## <param name="server">
##   <summary>
##   Domain of owner of lipc channel.
##   </summary>
## </param>

interface(`polaris_lipc_write',
  gen_require(`
  type polaris_lipc_t;
')
  write_sock_files_pattern($1, polaris_lipc_t, $2)
  allow $1 $3:unix_stream_socket { connectto };)

  polaris_socketat_nsfs_read($1)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislipc.if
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dnl
  dnl April 2018, Victor Kamensky
  dnl
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  dnl
  define(`polaris_lipc_service_server_aux',`dnl
  type $1;
  files_type($1)
  polaris_lipc_$2_create_name($3))

  define(`polaris_lipc_service_server_full',`dnl
  polaris_lipc_service_server_aux(lipc_label($1), lipc_stem($1), process_label($2))dnl
  ')

  define(`polaris_lipc_service_server',`dnl
  ifelselipc_type_map($1), ', ', `polaris_lipc_service_server_full($1, $2'))
  lipc_type_map_set(lipc_label($1), process_label($2))dnl
  ')

  define(`polaris_lipc_service_client_aux',`dnl

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 20301
polaris_lipc_$2_write($3, $4)')

define('polaris_lipc_service_client', 'dnl
polaris_lipc_service_client_aux(lipc_label($1), lipc_stem($1), process_label($2), lipc_type_map(lipc_label($1)))dnl
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc_te.m4
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#
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#
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#

policy_module(polarisbtman, 1.0);

gen_require(' type polaris_btman_t;
')
polaris_crft_data_manage(polaris_btman_t)
polaris_chasfs_manage(polaris_btman_t)
polaris_tldresolve_read(polaris_btman_t)
polaris_tldldb_list_dirs(polaris_btman_t)
polaris_cpld_read(polaris_btman_t)
polaris_flashlib_read(polaris_btman_t)
polaris_ripc_sman_ui_serv_connect(polaris_btman_t)
polaris_db_tldldb_dir_use(polaris_btman_t)
polaris_bexecute_domtrans(polaris_btman_t)

# script starts rsync with mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_btman_t)
polaris_send_signal_to_bexecute(polaris_btman_t)
corecmd_exec_bin(polaris_btman_t)
corecmd_exec_shell(polaris_btman_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_btman_t)
allow polaris_btman_t self:capability { dac_override fsetid };

polaris_cpld_read(polaris_btman_t)

# operate on all btrace files
polaris_btrace_data_manage_all(polaris_btman_t)

# btman operated on /tmp/tmppub files
type polaris_btrace_tmppub_t;
files_tm_file(polaris_btrace_tmppub_t)

polaris_systemd_tmppub_files_tm_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btman_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)

polaris_persistent_read(polaris_btman_t)

# in purge_old_core_files_from_harddisk function of btrace_rotate_util.c
# script removes outdated core files, so it needs read/write permission
# to polaris_core_file_t files.
polaris_core_file_manage(polaris_btman_t)

fs_getattr_xattr_fs(polaris_btman_t)

# btman checks for presence of /tmp/udev/etc/udev/harddisk
# through hwutil_is_harddisk_present function of hwutil-common.sh
polaris_udev_tmp_list_dirs(polaris_btman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_btman_t self:capability sys_resource;

# access to /tmp/sw/boot/dmesg
polaris_boot_tmp_read(polaris_btman_t)

polaris_create_ldb_domtrans(polaris_btman_t)

# btman calls update_resolver_luid_paths which eventually calls open_brand function for
# given polaris executable (build_crdu_luid_file_paths, bcrdu_get_proc_path_internal,
# brand_type_string)
polaris_read_exec_domain(polaris_btman_t)

# btman create transitional files in /tmp directory
type polaris_btman_tmp_t;
files_tm_file(polaris_btman_tmp_t)
files_tm_filetrans(polaris_btman_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_t, polaris_btman_tmp_t, polaris_btman_tmp_t)

# use syslog
logging_send_syslog_msg(polaris_btman_t)
# btman unlink /tmp/rp/pvp/work/btman_first_inst
polaris_pvp_manage_tmp_files(polaris_btman_t)

# operate on btrace file in /bootflash
polaris_btrace_persistent_data_manage(polaris_btman_t)

gen_require(
    type polaris_btrace_data_t;
)
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_crashinfo_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tracelogs")
polaris_bootflash_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")
polaris_harddisk_filetrans(polaris_btman_t, polaris_btrace_data_t, dir, "tan")

# btman creates /tmp/rp/pvp/work/btman_first_inst directory in is_first_incarnation
# function called by btrace_rotate_init
polaris_pvp_manage_tmp_files(polaris_btman_t)

# This block is policies for "request platform software system shell" CLI

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/bin/btman -f rp
#       -s /tmp/rp/trace/stage -w /tmp/rp/trace
# - needs to read/getattr on
#       /tmp/sw/mount/*universalk9.*.SSA.pkg/usr/binos/sbin/in.telnetd
gen_require(
    type telnetd_exec_t;
)
allow polaris_btman_t telnetd_exec_t:file { getattr open read };

# btman establishes leases for trace files
allow polaris_btman_t self:capability lease;

# dump_btrace_meta walks all files with nftw
files_getattr_all_files(polaris_btman_t)
files_getattr_all_dirs(polaris_btman_t)
files_read_all_symlinks(polaris_btman_t)
files_list_non_security(polaris_btman_t)
files_read_all_files(polaris_btman_t)
files_mmap_all_files(polaris_btman_t)

# btman exports data through http protocol btm_trigger_export and schedule_newfile_export
corenet_tcp_connect_http_port(polaris_btman_t)

# LOOK AT ME: incorrect iosd-tps service_def. It should be renamed
# iosd_tps_socket-b0 in all platform.tdl files. Remove the following
# policy when CSCvp89498 is fixed.
gen_require(
    type polaris_lipc_t;
    type polaris_pman_t;
')
polaris_lipc_write(polaris_btman_t, polaris_lipc_t, polaris_pman_t)

# btman manages some persistent crashinfo files
polaris_disk_crashinfo_manage(polaris_btman_t)

#DB persistence
polaris_tlddbpersist_setup(polaris_btman_t)

polaris_tmp_tlddb_persist_setup(polaris_btman_t)

polaris_btrace_data_watch(polaris_btman_t)

# dump_btrace_meta writes to /tmp/binary_trace.1605747053/.pkginfo
polaris_install_tmp_manage(polaris_btman_t)

#allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.te
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#
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#

policy_module(polarisfmanrp, 1.0);

gen_require(
    type polaris_fman_rp_t;
')

############################################################################
# mqipc manual, one that missing in platform tdl file
############################################################################

# mq.-fman-log-bay0-peer0
type polaris_fman_log_bay0_peer0_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer0_mqipc_t)


# mq.-fman-log-bay0-peer1
:type polaris_fman_log_bay0_peer1_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer1_mqipc_t)

# mq.-fman-log-bay0-peer2
:type polaris_fman_log_bay0_peer2_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer2_mqipc_t)

# mq.-fman-log-bay0-peer3
:type polaris_fman_log_bay0_peer3_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer3_mqipc_t)

# mq.-fman-log-bay0-peer4
:type polaris_fman_log_bay0_peer4_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer4_mqipc_t)

# mq.-fman-log-bay0-peer5
:type polaris_fman_log_bay0_peer5_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer5_mqipc_t)

# mq.-fman-log-bay0-peer6
:type polaris_fman_log_bay0_peer6_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer6_mqipc_t)

# mq.-fman-log-bay0-peer7
:type polaris_fman_log_bay0_peer7_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer7_mqipc_t)

# mq.-fman-log-bay0-peer8
:type polaris_fman_log_bay0_peer8_mqipc_t;
polaris_mqipc_type(polaris_fman_log_bay0_peer8_mqipc_t)

polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer0_mqipc_t, fman-log-bay0-peer0)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer1_mqipc_t, fman-log-bay0-peer1)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer2_mqipc_t, fman-log-bay0-peer2)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer3_mqipc_t, fman-log-bay0-peer3)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer4_mqipc_t, fman-log-bay0-peer4)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer5_mqipc_t, fman-log-bay0-peer5)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer6_mqipc_t, fman-log-bay0-peer6)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer7_mqipc_t, fman-log-bay0-peer7)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fman_log_bay0_peer8_mqipc_t, fman-log-bay0-peer8)

polaris_btrace_data_manage(polaris_fman_rp_t)
polaris_crf/t_data_manage(polaris_fman_rp_t)
polaris_chasfs_manage(polaris_fman_rp_t)
polaris_tdlresolve_read(polaris_fman_rp_t)
polaris_tld/db_list_dirs(polaris_fman_rp_t)
polaris_cpld_read(polaris_fman_rp_t)
polaris_flashlib_read(polaris_fman_rp_t)
polaris_lua_read(polaris_fman_rp_t)
polaris_ripc_sman_ui_serv_connect(polaris_fman_rp_t)
polaris_db_tldldb_dir_use(polaris_fman rp_t)

ifdef('nyquist_platform',
    gen_require(''
        type polaris_bt_logger_fman_rp_mqipc_t;
    ')
)

# fman_rp may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_bt_logger_fman_rp_mqipc_t, bt_logger_fman-rp)

allow polaris_fman rp_t self:udp_socket { create ioctl);

allow polaris_fman rp_t self:capability { dac_override };
allow polaris_fman rp_t self: capability2 block_suspend;

# not clear why fman rp tries to load netdev-mgmtbr kernel module
# it does not exist on ultra anyway
# type=AVC msg=audit(1478126742.967:98): avc: denied { module_request } for pid=18020 comm="fman rp"
# kmod="netdev-mgmtbr" scontext=system_u:system_r:polaris_fman_rp_t:s0
tcontext=system_u:system_r:kernel_t:s0 tclass=system
kernel_request_load_module(polaris_fman rp_t)
polaris_socketat nsfs_read(polaris_fman rp t)
polaris_dyncfg_tmp_read(polaris_fman rp_t)

# socketat usage from fman_punt_port_mapping_init for AF_NETLINK, SOCK_DGRAM
polaris_lfts_dev_use(polaris_fman_rp_t)
allow polaris_fman rp_t self:netlink_tcpdiag_socket {create nlmsg_read };

# fman_rp tries to write to systemd journal when a peer is stuck
# introduced by CSCvt19772
logging_send_syslog_msg(polaris_fman_rp_t)

optional_policy(''
    #fman-rp creates tmp files in acl-mgmt workflow.
polaris_fman_acl iptbl_tmp_file(polaris_fman rp_t)
')

# manually create mqipc channel: missing in TDL
type polaris_fmrp2fpm_mqipc_t;
polaris_mqipc_type(polaris_fmrp2fpm_mqipc_t)
polaris_mqipc_create_name(polaris_fman_rp_t, polaris_fmrp2fpm_mqipc_t, fmrp2fpm_vulcan_mqipc)

optional_policy(
polaris_fpm2fmrp_mqipc_use(polaris_fman_rp_t)
')

polaris_issuer_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.te
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#
# August 2017, Shawn Lu
#
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#

copyright_module(polarisrifmgr, 1.0);

gen_require(
    type polaris_rif_mgr_t;
')

polaris_btrace_data_manage(polaris_rif_mgr_t)
polaris_crft_data_manage(polaris_rif_mgr_t)
polaris_chasfs_manage(polaris_rif_mgr_t)
polaris_tdlresolve_read(polaris_rif_mgr_t)
polaris_tddlb_list_dirs(polaris_rif_mgr_t)
polaris_cpld_read(polaris_rif_mgr_t)
polaris_lua_read(polaris_rif_mgr_t)
polaris_flashlib_read(polaris_rif_mgr_t)
polaris_lfts_dev_use(polaris_rif_mgr_t)
logging_send_syslog_msg(polaris_rif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_rif_mgr_t)

allow polaris_rif_mgr_t self:capability { sys_nice dac_override };
allow polaris_rif_mgr_t self:process { setsched };
# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_rif_mgr_t)

# work with /dev/hanet device
polaris_hanet_dev_use(polaris_rif_mgr_t)

# update/read chassis serial numer /csl_p_0/vudi.pri
polaris_disk_csl_manage(polaris_rif_mgr_t)

# monitors native interfaces flap over /proc and netlink
kernel_read_network_state(polaris_rif_mgr_t)
allow polaris_rif_mgr_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_rif_mgr_t self:unix_dgram_socket create_socket_perms;

# pidof and /proc usage
dev_read_sysfs(polaris_rif_mgr_t)
kernell_read_system_state(polaris_rif_mgr_t)
domain_read_all_domains_state(polaris_rif_mgr_t)
corecmd_exec_bin(polaris_rif_mgr_t)

kernel_dontaudit_request_load_module(polaris_rif_mgr_t)
# rifmgr creates udp socket to get interface flags in rif_rp_init
allow polaris_rif_mgr_t self:udp_socket create_socket_perms;
corenct_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenct_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenct_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenct_udp_bind_generic_node(polaris_rif_mgr_t)

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#

## <summary>Polaris stack_mgr Policy Rules.</summary>

### Read and write all stack mgr's fifo file, used as standard input/output.

### Domain allowed access.

## <param name="domain"/>
## <rolecap/>


interface('polaris_use_stack_mgr_fifo',
    gen_require(
        type polaris_stack_mgr_t;
    ')

    write_fifo_files_pattern($1, polaris_stack_mgr_t, polaris_stack_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.if
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#
/

/tmp/.DMI_FIFO                      gen_context(system_u:object_r:polaris_dmi_vtyserverutild_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.fc
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#

## <summary>Polaris cm_cc Policy Rules.</summary>

##################################################################
## <summary>
##      Execute cmand_fp in the polaris_cm_fp_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
interface('polaris_cm_cc_domtrans',
    gen_require(
        type polaris_cm_cc_t, polaris_cm_cc_exec_t;
    ')

## <summary>Polaris cm_cc Policy Rules.</summary>

##################################################################
corecmd_search_bin($1)
    domtrans_pattern($1, polaris_cm_cc_exec_t, polaris_cm_cc_t)

')

#######################################
## <summary>
##      Manage cm_cc_tmpfs files.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
#
interface(`polaris_cm_cc_tmpfs_manage',
    gen_require(
        type polaris_cm_cc_tmpfs_t;
    ')

    manage_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
    mmap_files_pattern($1, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

#######################################
## <summary>
##      Check presence and unlink /tmp/nim_xxd_present file created by cman cc.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_nim_xxd_tmp_open_unlink',
    gen_require(
        type polaris_nim_xxd_tmp_t;
    ')

    allow $1 polaris_nim_xxd_tmp_t:file { open unlink }
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.if
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#

## <summary>Polaris LUA Policy Rules.</summary>

# Polaris Lfts

### <summary>Polaris LUA Policy Rules.</summary>

### # Work (read, write, ioctl) with /dev/dev_lfts device.

### <param name="domain">

### Domain allowed access.

### </param>

### <rolebase/>

interface('polaris_lfts_dev_use',
    gen_require(
        type device_t;
        type polaris_lfts_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_lfts_device_t)
    read_chr_files_pattern($1, device_t, polaris_lfts_device_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislfts.if

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

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.if
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#
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#
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#

/var/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_var_vman_t,s0)

/bootflash/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/bootflash/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/vol/harddisk/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/vol/harddisk/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

#sparrow, blackheart
/flash1/virtual-instance(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/virtual-instance.conf --  gen_context(system_u:object_r:polaris_disk_vman_t,s0)
/flash1/vman_fdb(/.*)?  gen_context(system_u:object_r:polaris_disk_vman_t,s0)

/tmp/vman(/.*)?  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/cgroup.log  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/vman_lxc_wdt_[0-9]*  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)
/tmp/trace(/.*)?  gen_context(system_u:object_r:polaris_vman_tmp_t,s0)

/usr/binos/conf/vman_exec.sh --  gen_context(system_u:object_r:polaris_vman_shell_exec_t,s0)
/usr/binos/conf/cgroup_reports.sh --  gen_context(system_u:object_r:polaris_cgroup_reports_exec_t,s0)
/usr/binos/conf/vman_techsupport.sh --  gen_context(system_u:object_r:polaris_vman_tech_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.fc
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisodmproxy, 1.0);

gen_require("
type polaris_odm_proxy_t;

polaris_btrace_data_manager(polaris_odm_proxy_t)
polaris_crft_data_manager(polaris_odm_proxy_t)
polaris_chasfs_manager(polaris_odm_proxy_t)
polaris_tldresolve_read(polaris_odm_proxy_t)
polaris_tldl_db_list_dirs(polaris_odm_proxy_t)
polaris_cpld_read(polaris_odm_proxy_t)
polaris_lua_read(polaris_odm_proxy_t)
polaris_flashlib_read(polaris_odm_proxy_t)

polaris_ripc_sman_ui_serv_connect(polaris_odm_proxy_t)

polaris_db_tldldb_dir_use(polaris_odm_proxy_t)

#allow to setrlimit
allow polaris_odm_proxy_t self:capability sys_resource;
allow polaris_odm_proxy_t self:process setrlimit;
allow polaris_odm_proxy_t self:capability dac_override;

polaris_odm_clnt2svr_mqipc_create(polaris_odm_proxy_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.te
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#
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#
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#

## <summary>Polaris issu_monitor Policy Rules.</summary>
########################################################
## Execute issumonitor in the polaris_issu_monitor domain.
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
## </summary>
#
type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
domtrans_pattern($1, polaris_issu_monitor_exec_t, polaris_issu_monitor_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.if
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dnl
dnl May 2018, Victor Kamensky
dnl
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dnl
dnl Place holder to let selinux-policy makefile know that this module
dnl is autogenerated, but we have different rules for it

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformipcauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.if.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/autopolarisplatformipcbase.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformipcauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformdbauto.if.in
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polariskeyman, 1.0);

gen_require(
   type polaris_keyman_t;
')

polaris_btrace_data_manage(polaris_keyman_t)
polaris_crf_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_ddlb_list_dirs(polaris_keyman_t)
polaris_flashlib_read(polaris_keyman_t)
polaris_ripc_sman_ui_serv_connect(polaris_keyman_t)

allow polaris_keyman_t self:capability net_admin;
# keyman utilizes secure memory via ciscossl libcrypto.so (mlock)
allow polaris_keyman_t self:capability ipc_lock;
polaris_cpld_read(polaris_keyman_t)

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`quake_platform',`
  dev_read_sysfs(polaris_keyman_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef(`supernova_platform',`
  dev_read_sysfs(polaris_keyman_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariskeyman.te
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#
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#
#
# polaristamdrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.fc
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#
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#
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#
#
# /bootflash labels
/bootflash(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)? gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\.pub gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/bootflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/bootflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /vol/bootflash4 labels
/vol/bootflash4(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/vol/bootflash4/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/vol/bootflash4/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/vol/bootflash4/obfl_.* gen_context(system_u:object_r:polaris_obfl_data_t,s0)

# /harddisk labels
/vol/harddisk(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk_internal(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/vol/harddisk_internal/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/vol/harddisk_internal/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/vol/harddisk/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# on 1ng persistent storage arranged differently
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)

/vol/disk0(/.*)? gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /init is symbolic link to /lib/systemd/systemd
/init -l gen_context(system_u:object_r:init_exec_t,s0)

# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# scooby device
/dev/scooby -c gen_context(system_u:object_r:polaris_scooby_device_t,s0)

# spa devices handled by sys_platform driver
/dev/spa0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa1 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa2 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/spa3 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)
/dev/iocp0 -c gen_context(system_u:object_r:polaris_spa_device_t,s0)

# htdp devices
/dev/htdp[0-9]* -c gen_context(system_u:object_r:polaris_htdp_device_t,s0)

# /dev/epa device on asr1k(mcp)
/dev/epa[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)
/dev/epactrl[0-9]* -c gen_context(system_u:object_r:polaris_epa_device_t,s0)

# /dev/luna_fpga on asr1k(mcp)
/dev/luna_mbfpga -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

# /dev/dash_fpga device on fugazi(mcp)
/dev/dash_fpga -c gen_context(system_u:object_r:polaris_dash_device_t,s0)
/dev/dash_fpga_cc0 -c gen_context(system_u:object_r:polaris_dash_device_t,s0)

# /dev/astro on asr1k(mcp)
/dev/astro -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

# /dev/oob_evfc on asr1k(mcp)
/dev/oob_evfc -c gen_context(system_u:object_r:polaris_oob_evfc_device_t,s0)

# /dev/cpp_il on asr1k(mcp)
/dev/cpp_il -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_adf_gige_wd -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_csr -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev0_ring -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_mem_page -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/ds31408 -c gen_context(system_u:object_r:polaris_ds31408_device_t,s0)
/dev/cbdma -c gen_context(system_u:object_r:polaris_cbdma_device_t,s0)
/dev/cpp_htdp -c gen_context(system_u:object_r:polaris_cpp_htdp_device_t,s0)
/dev/n2_device -c gen_context(system_u:object_r:polaris_n2_device_t,s0)
/dev/cy2213 -c gen_context(system_u:object_r:polaris_cy2213_device_t,s0)
/dev/vega -c gen_context(system_u:object_r:polaris_vega_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.fc
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dnl

dnl April 2018, Victor Kamensky

dnl

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dnl
define(`max_bay_map', `defn(format(``max_bay_map[%s-%s]''', `$1', `$2')))
define(`max_bay_map_set', `define(format(``max_bay_map[%s-%s]''', `$1', `$2', `$3')))

define(`max_elastic_map', `defn(format(``max_elastic_map[%s-%s-%s]''', `$1', `$2', `$3')))
define(`max_elastic_map_set', `define(format(``max_elastic_map[%s-%s-%s]''', `$1', `$2', `$3', `$4')))

define(`max_scope_map', `ifelse($2, `elastic', `max_elastic_map($1, $2, $3)', `max_bay_map($1, $2)'))

dnl RICP scope handling
define(`min_bay_ripc_map', `defn(format(``min_bay_ripc_map[%s-%s]''', `$1', `$2')))
define(`min_bay_ripc_map_set', `define(format(``min_bay_ripc_map[%s-%s]''', `$1', `$2', `$3')))

define(`min_elastic_ripc_map', `defn(format(``min_elastic_ripc_map[%s-%s-%s]''', `$1', `$2', `$3')))
define(`min_elastic_ripc_map_set', `define(format(``min_elastic_ripc_map[%s-%s-%s]''', `$1', `$2', `$3', `$4')))

define(`min_scope_ripc_map_aux', `ifelse($2, `elastic', `min_elastic_ripc_map($1, $2, $3)', `min_bay_ripc_map($1, $2)')

define(`min_scope_ripc_map', `ifelse(min_scope_ripc_map_aux($1, $2, $3), `', 0, min_scope_ripc_map_aux($1, $2, $3))')

define(`max_bay_ripc_map', `defn(format(``max_bay_ripc_map[%s-%s]''', `$1', `$2')))
define(`max_bay_ripc_map_set', `define(format(``max_bay_ripc_map[%s-%s]''', `$1', `$2', `$3')))

define(`max_elastic_ripc_map', `defn(format(``max_elastic_ripc_map[%s-%s-%s]''', `$1', `$2', `$3')))
define(`max_elastic_ripc_map_set', `define(format(``max_elastic_ripc_map[%s-%s-%s]''', `$1', `$2', `$3', `$4')))

define(`max_scope_ripc_map_aux', `ifelse($2, `elastic', `max_elastic_ripc_map($1, $2, $3), `max_bay_ripc_map($1, $2)')

define(`max_scope_ripc_map', `ifelse(max_scope_ripc_map_aux($1, $2, $3), `', 0, max_scope_ripc_map_aux($1, $2, $3))')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_max_scope.m4

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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris periodic Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polrisperiodic.if

No license file was found, but licenses were detected in source scan.
policy_module(polariscommon, 1.0);

# Polaris common

# domain that holds all polaris processes
attribute polaris_domain;

# domain that holds all polaris processes executables
attribute polaris_exec_domain;

# domain that holds all polaris processes plus few base types that operates on
# during system start, like initrc_t and unconfined_service_t. Please remove
# unconfined types latter.
attribute polaris_extended_domain;

gen_require(`
    type unconfined_t;
    type unconfined_service_t;
    type initrc_t;
    type init_t;
`)

typeattribute unconfined_t polaris_extended_domain;
typeattribute unconfined_service_t polaris_extended_domain;
typeattribute initrc_t polaris_extended_domain;
typeattribute init_t polaris_extended_domain;
# common permissions that are safe to grant and hard to root cause.
# These permissions may need to be turned off during development or tightened
# in future releases

gen_require(`
    attribute domain;
`)

# sys_resource denial is seen due to disk full issue
# and possibly FD exceeding limit
allow domain self:capability sys_resource;

# When management interface is enabled for development Polaris device can be
# access by telnet, which directly drops into shell. It would be desirreably
# to remove telnet functionality at all. But for now we need transition
# rule to get shell running in unconfined domain.

gen_require(`
    type telnetd_t;
`)

unconfined_shell_domtrans(telnetd_t)

# This block is policies for "request platform software system shell" CLI.
# Execute bexecute in polaris_bexecute domain.

polaris_bexecute_domtrans(telnetd_t)

# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd
# -L /usr/binos/conf/brelay.sh
# which later gets renamed to /tmp/rp/trace/telnetd_service_sh_*.bin
polaris_btrace_data_manage(telnetd_t)

# mcp_telnetd_init through btrace_application_start calls get_chassis_number
# so it needs chasfs access
polaris_chasfs_read(telnetd_t)
polaris_cpld_read(telnetd_t)
polaris_btrace_lvl_config_manage(telnetd_t)

# LOOK AT ME: rsync needs sys_admin capability
# only seen when we boot in enforcing mode, localtime glibc library call
# needs time zone information and through __tz_convert function it eventually
# calls syspage function and that in turns calls Cisco syspage related
# prctl that is protected by CAP_ADMIN now

gen_require(`
    type rsync_t;
`)

allow rsync_t self:capability sys_admin;

# mount_packages.sh systemd unit runs under init_t and it leaks unix socket
allow rsync_t init_t:unix_stream_socket getattr;

# LOOK AT ME: auditd needs sys_admin capability
# only seen when we boot in enforcing mode, denials happens upon exec of
# auditdsp why is not entirely clear
allow auditd_t self:capability sys_admin;

# LOOK AT ME:
# Because Cisco kernel features check for capability sys_admin
# before granting access to it. It turns out to be mistake because
# in SELinux universe beeing root does not meen one have sys_admin
# capability. For now grant sys_admin capability to everyone :(.  
allow domain self:capability sys_admin;

# LOOK AT ME:
# all polaris SMU system is based on LD_LIBRARY_PATH passing from
# parent to child, but if auxv AT_SECURE would be set to 1, glibc
# will clean LD_LIBRARY_PATH and other environment variables when
# it execve another process. We need to grant noatsecure to all
# processes
allow domain domain:process { noatsecure rlimitinh };

# nfs server exporting some directories like /harddisk
polaris_disk_bootflash_read_lnk(nfsd_t)
polaris_harddisk_read(nfsd_t)

# nfs server check hugetlbfs files system
allow domain domain:process { noatsecure rlimitinh };

list_dirs_pattern(nfsd_t, hugetlbfs_t, hugetlbfs_t)
# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean

```
gen_require(
    type removable_t;
')
```

```
list_dirs_pattern(nfsd_t, removable_t, removable_t)
```

# firmware type
type polaris_firmware_t;
files_type(polaris_firmware_t)

# some systemd unit creates /firmware directory in initramfs
gen_require(
    attribute domain;
    type root_t;
')

```
filetrans_pattern(domain, root_t, polaris_firmware_t, dir, "firmware")
```

# handling /tmp/debug.conf, created by systemd unit
gen_require(
    type polaris_debug_conf_t;
    type unconfined_service_t;
')

```
files_tmp_filetrans(unconfined_service_t, polaris_debug_conf_t, {file lnk_file}, "debug.conf")
```

# /tmp/etc files; serving as /etc like but sitting in mutable storage
# (assuming that real /etc would become read-only eventually)
type polaris_etc_t;
files_type(polaris_etc_t);

# /tmp/sv files
type polaris_sv_tmp_t;
files_tmp_file(polaris_sv_tmp_t)

# /dev/i2c-N
type polaris_i2c_device_t;
dev_node(polaris_i2c_device_t)

# remap_mem0 device
type polaris_remap_mem_device_t;
dev_node(polaris_remap_mem_device_t)

type polaris_ebf_t;
files_type(polaris_ebf_t)

# allow all domains map/read ebf files
gen_require(
    attribute domain;
)
polaris_ebf_map(domain)

# btrace files for telnetd, since telnetd is open source label
# and it does not use our domain creation template
gen_require(
    type telnetd_t;
')

type polaris_telnetd_bt_t;
polaris_btrace_data_type(polaris_telnetd_bt_t)
polaris_btrace_data_client(telnetd_t, polaris_telnetd_bt_t)

type polaris_telnetd_maroon_t;
polaris_maroon_data_type(polaris_telnetd_maroon_t)
polaris_maroon_data_client(telnetd_t, polaris_telnetd_maroon_t)

############################################################################
# "install add file" on ULTRA invokes:
# /tmp/sw/rp/0/0/rp_security/mount/usr/binos/sbin/in.telnetd -L /usr/binos/conf/brelay.sh
# That needs getattr on /lib/systemd/system/ksm.service
polaris_ksm_run_check(telnetd_t)

# restorecon needs sys_resource capability
gen_require('
    type setfiles_t;
')
allow setfiles_t self:capability sys_resource;

# accessing /sys/firmware/dmi/tables/DMI
gen_require(
    type dmidecode_t;
    type sysfs_t;
)
mmap_files_pattern(dmidecode_t, sysfs_t, sysfs_t)
gen_require(
    type dmidecode_t;
    type memory_device_t;
)
allow dmidecode_t memory_device_t:chr_file map;
# called by confd_t label with it is file as stdin
polaris_confed_tmp_use_fifo(dmidecode_t)

# rpcbind binds to port
gen_require(
    type rpcbind_t;
)
corenet_udp_bind_generic_port(rpcbind_t)
# when polaris_unconfined we need to mark all subject labels except
# iosd lable to run as unconfined
ifdef(`polaris_unconfined',`
    gen_require(
        type auditd_t;
        type dhcpc_t;
        type getty_t;
        type inetd_t;
        type initrc_t;
        type init_t;
        type journalctl_t;
        type nfsd_t;
        type ntpd_t;
        type rpcbind_t;
        type rcpd_t;
        type rsync_t;
        type setfiles_t;
        type sshd_t;
        type syslogd_t;
        type system_dbusd_t;
        type udev_t;
        type virtd_t;
        type virtlogd_t;
        type ldconfig_t;
        type hostname_t;
    )
    unconfined_domain(auditd_t)
    unconfined_domain(dhcpc_t)
    unconfined_domain(getty_t)
    unconfined_domain(inetd_t)
    unconfined_domain(initrc_t)
    unconfined_domain(init_t)
    unconfined_domain(journalctl_t)
    unconfined_domain(nfsd_t)
    unconfined_domain(ntpd_t)
    unconfined_domain(rpcbind_t)
    unconfined_domain(rcpd_t)
    unconfined_domain(rsync_t)
    unconfined_domain(setfiles_t)
    unconfined_domain(sshd_t)
    unconfined_domain(syslogd_t)
    unconfined_domain(system_dbusd_t)
    unconfined_domain(udev_t)
    unconfined_domain(virtd_t)
    unconfined_domain(virtlogd_t)
    unconfined_domain(ldconfig_t)
    unconfined_domain(hostname_t)
')
ifdef(`polaris_unconfined',`
optional_policy(`
gen_require(`
    type container_runtime_t;
)
unconfined_domain(container_runtime_t)
')
')

# /tmp/rsync_log_dir files
type polaris_rsync_tmp_t;
files_tmp_file(polaris_rsync_tmp_t)

# activate correct named transition for basic directories
# when code runs under unconfined_service_t, i.e calls ip
# command that runs under ifconfig_t and creates /run/netns
gen_require(`
    type unconfined_service_t;
')
domain_named_filetrans(unconfined_service_t)
gen_require(`
    type ifconfig_t;
    type ifconfig_var_run_t;
')
allow ifconfig_t ifconfig_var_run_t:dir mounton;

# earlier invocation of ifconfig complains about tmp_t mounton
# on /sys directory
gen_require(`
    type tmp_t;
')
allow ifconfig_t tmp_t:dir mounton;

#SERDES library stores info in /tmp/serdes_asic_key_dir/*
type polaris_serdes_asic_key_tmp_t;
files_tmp_file(polaris_serdes_asic_key_tmp_t)

# /dev/shm/vrf_shm access
type polaris_vrf_shm_t;
files_type(polaris_vrf_shm_t)

# /dev/shm/cerrno_dll access
type polaris_cerr_shm_t;
files_tmpfs_file(polaris_cerr_shm_t)

# for /sbin/ip: /dev/shm/vrf_shm access in netns creation
gen_require(`
type ifconfig_t;
')
polaris_vrf_shm_manage(ifconfig_t)

# for /sbin/ip: adds lfts device in netns creation
polaris_lfts_dev_use(ifconfig_t)

# new systemd-tmpfiles needs this permissions
gen_require(
    type systemd_tmpfiles_t;
')
allow systemd_tmpfiles_t self:capability sys_resource;
allow systemd_tmpfiles_t self:process setrlimit;

gen_require(
    type unconfined_service_t;
')
ssh_initrc_domtrans(unconfined_service_t)

# wlc awips
type polaris_awips_signature_file_t;
polaris_pfile_type(polaris_awips_signature_file_t)

#/usr/bin/curl
type polaris_curl_t;
type polaris_curl_exec_t;
init_system_domain(polaris_curl_t, polaris_curl_exec_t)
corennet_udp_bind_generic_node(polaris_curl_t)
auth_use_nsswitch(polaris_curl_t)
polaris_crft_data_read(polaris_curl_t)

# for ip netns exec X curl
optional_policy(
    polaris_curl_domtrans(ifconfig_t)
')

#/etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require(
    type initrc_t;
    type ssh_home_t;
')
polaris_bootflash_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

#/tmp/ldwm_envelope file
type polaris_ldwm_envelope_tmp_t;
files_tmp_file(polaris_ldwm_envelope_tmp_t)
gen_require(
    type initrc_t;
    type init_t;
')
files_tmp_filetrans({ initrc_t init_t }, polaris_ldwm_envelope_tmp_t, file, "ldwm_envelope")

# CLI: show platform software tech-support
polaris_utility_domain_template(tech_support)
polaris_bexecute_domain(polaris_tech_support_t, polaris_tech_support_exec_t)
polaris_bexecute_domtrans(polaris_tech_support_t)

# allow to run readlink -f /usr/binos/conf/psimple.sh
corecmd_exec_bin(polaris_tech_support_t)

# Additional policies needed for workflow
auth_use_nsswitch(polaris_tech_support_t)
dev_list_sysfs(polaris_tech_support_t)
polaris_chasfs_read(polaris_tech_support_t)
polaris_cpld_read(polaris_tech_support_t)
# scripts stdin is set by hman and needs access to pipes like pipe:[271524]
polaris_hman_use_fifo(polaris_tech_support_t)
# Allow ls to /tmp/ufs/crashinfo
optional_policy(
    polaris_ncd_tmp_read(polaris_tech_support_t)
')

# Allow readlink to /usb0 and /usb1
optional_policy(
    fs_read_removable_symlinks(polaris_tech_support_t)
')

gen_require(
    type polaris_btrace_tmppub_t;
    type polaris_disk_bootflash_t;
    type polaris_disk_crashinfo_t;
')

# platform_tech_support.sh creates misc files/dirs under /tmp/tmppub
type polaris_tech_support_tmp_t;
files_tmp_file(polaris_tech_support_tmp_t)
filetrans_pattern(polaris_tech_support_t, polaris_btrace_tmppub_t, polaris_tech_support_tmp_t, { file dir })
# misc file directly in /tmp like /tmp/esg_tech_support_command_file_out.txt
files_tmp_filetrans(polaris_tech_support_t, polaris_tech_support_tmp_t, file, "esg_tech_support_command_file_out.txt")
files_tmp_filetrans(polaris_tech_support_t, polaris_tech_support_tmp_t, file, "sdwan_tech_support_command_file_out.txt")
manage_files_pattern(polaris_tech_support_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
manage_dirs_pattern(polaris_tech_support_t, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)

# /bootflash/certs
type polaris_ap_cert_file_t;
files_type(polaris_ap_cert_file_t)
polaris_pfile_type(polaris_ap_cert_file_t)

# Additional policies needed for workflow when file option is used
# show platform software tech-support file bootflash:show_tech_file
polaris_bootflash_manage(polaris_tech_support_t)
polaris_disk_crashinfo_manage(polaris_tech_support_t)
fs_getattr_tmpfs(polaris_tech_support_t)
polaris_btrace_persistent_data_read(polaris_tech_support_t)

type polaris_rommon_info_tmp_t;
files_tmp_filetrans(initrc_t, polaris_rommon_info_tmp_t, file, "existing_rommon_info")
manage_files_pattern(initrc_t, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
fs_associate_tmpfs(polaris_rommon_info_tmp_t)

# tamlib debug file
type polaris_tamlib_dbg_file_t;
polaris_pfile_type(polaris_tamlib_dbg_file_t)

# read /proc/cmdline
kernel_read_system_state(polaris_tech_support_t)
# read rmhbonifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_tech_support_t)
# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_read(polaris_tech_support_t)

# /dev/ddr
type polaris_ddr_device_t;
dev_node(polaris_ddr_device_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.te
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---

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl Ripc Base Interface Map: track that type declations unique
define(’ripc_base_type_map’, `defn(format(’`ripc_base_type_map[%s]’, `$1’))’)
define(’ripc_base_type_map_set’, `define(format(’`ripc_base_type_map[%s]’, `$1’), `$2’))

---

Open Source Used In Cisco Identity Services Engine 3.2 20329
define('ripc_base_port_map', `defn(format(``ripc_base_port_map[%s]'', `$1'))')
define('ripc_base_port_map_set', `define(format(``ripc_base_port_map[%s]'', `$1'), `$2')')
define('polaris_ripc_portcon',portcon tcp $1 gen_context(system_u:object_r:$2,s0))
define('polaris_ripc_portcon_aux',`dnl
  ifelse(ripc_base_port_map($1), `', `polaris_ripc_portcon($1, $2))
  ripc_base_port_map_set($1, $2)
')
define('polaris_ripc_portcon_many',
  `polaris_ripc_portcon_aux(eval($2 + $3), $1)
  ifelse($4, $3, `', `polaris_ripc_portcon_many($1, $2, eval($3 + 1), $4)'))')
define('polaris_ripc_service_server_aux',`dnl
  type $1, port_type, defined_port_type;
  $4
')
define('polaris_ripc_service_server_full',`dnl
  polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2),
    polaris_ripc_portcon_many(ripc_label($1), $5, min_scope_ripc_map($3, $4, $2),
    max_scope_ripc_map($3, $4, $2)))
')
define('polaris_ripc_service_server',`dnl
  ifelse(ripc_base_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
  ripc_base_type_map_set($1, 1)
')
define('polaris_ripc_service_client',`dnl
  ifelse(ripc_base_type_map($1), `', `polaris_ripc_service_server_full($1, $2, $3, $4, $5))
  ripc_base_type_map_set($1, 1)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_te.m4
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#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris ngwc_plfm_mgr Policy Rules.</summary>

*******************************************************************************
### <summary>
###  Read /tmp/installer files and directories
### </summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_ngwc_plfm_mgt_tmp_manage',`
    gen_require(`
    type polaris_ngwc_plfm_mgr_tmp_t;
    ')
    manage_dirs_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
    manage_files_pattern($1, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)
    ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.if
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#
# April 2017, Victor Kamensky
#
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#
### <summary>Polaris dmi_dmiauthd Policy Rules.</summary>

*******************************************************************************
### <summary>
###  Connect to and send messages to dmiauthd.
### tmp/.DmiAuth.sock unix datagram sockets.
### </summary>
### <param name="domain">
###  <summary>
###  Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_dmi_dmiauthd_dgram_send',`
    gen_require(`
    type polaris_dmi_dmiauthd_tmp_t;
    ')

## Domain allowed access.

## </summary>
## </param>
## <rolebase/>
#
# interface('polaris_dmiauthd_tmp_diags_manage',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_diags_t;
  )
  manage_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  manage_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  manage_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

#######################################
## Read /tmp/netconf-yang-diag/ files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
# interface('polaris_dmiauthd_tmp_diags_read',
  gen_require(
    type polaris_dmi_dmiauthd_tmp_diags_t;
  )
  read_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  list_dirs_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
  read_lnk_files_pattern($1, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
')

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.if
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# March 2019, Shikhar Dogra
#
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#
# polarisfmancc file contexts place holder
dnl

dnl April 2018, Victor Kamensky

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dnl define(`lipc_stem', `translit(patsubst($1, `-lipc$', `'), `-', `_')')
dnl define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1)))'

dnl Lipc Type Map: track that type declations unique
dnl define(`lipc_type_map', `defn(format(``lipc_type_map[%s]'', `$1'))')
dnl define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]'', `$1'), `$2')')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_lipc.m4
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#  
# February 2020, Victor Kamensky
#  
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#  

policy_module(polariscfgmgr, 1.0);

gen_require(

  `type polaris_cfgmgr_t;
')
polaris_chasfs_manage(polaris_cfgmgr_t)
# read day0_oper.xml and write local.data.tmp
polaris_bootflash_manage(polaris_cfgmgr_t)
polaris_boot_tmp_read(polaris_cfgmgr_t)
polaris_cpld_read(polaris_cfgmgr_t)
polaris_tidresolve_read(polaris_cfgmgr_t)
polaris_flashlib_read(polaris_cfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_cfgmgr_t)
polaris_db_tdlldb_dir_use(polaris_cfgmgr_t)
logging_send_syslog_msg(polaris_cfgmgr_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polarisCfgmgr_t)

polaris_cedge_reset_ns(polarisCfgmgr_t)

polaris_cedge_etc_manage(polarisCfgmgr_t)

# /etc/version is opened via "show sdwan version"
polaris_confd_etc_read(polarisCfgmgr_t)

# /var/run/cfgmgr socket and pid
type polarisCfgmgr_var_run_t
files_pid_file(polarisCfgmgr_var_run_t)
manage_files_pattern(polarisCfgmgr_t, polarisCfgmgr_var_run_t, polarisCfgmgr_var_run_t)
manage_sock_files_pattern(polarisCfgmgr_t, polarisCfgmgr_var_run_t, polarisCfgmgr_var_run_t)
files_pid_filetrans(polarisCfgmgr_t, polarisCfgmgr_var_run_t, { file sock_file })

# sets up symbloc link /var/run/netns/default to pid 1 netns
sysnet_manage_ifconfig_run(polarisCfgmgr_t)

# PLEASE LOOK AT ME create_syslog_conf_file function in
# viptela/cfgmgr/cfgmgr_logging.c creates /etc/syslog.conf.sysklogd file
# that nobody uses in polaris
files_manage_etc_files(polarisCfgmgr_t)

# in cfgmgr_vpn_namespace_add creates udp socket
allow polarisCfgmgr_t self:udp_socket create_socket_perms;

# watch /bootflash/sdwan/day0_oper.xml
polaris_persistent_watch(polarisCfgmgr_t)

# compute_available_memory executes /bin/df /dev/shm'
corecmd_exec_bin(polarisCfgmgr_t)
# vip_binos_cpuinfo calls sysconf
dev_read_sysfs(polarisCfgmgr_t)
# cfgmgr_show_system_get_elem collects SDWAN_DISK_MOUNT (/bootflash) fs info
fs_getattr_xattr_fs(polarisCfgmgr_t)
# crashlist_refresh collects info about corefiles
polaris_core_file_read(polarisCfgmgr_t)
# cfgmgr_show_system_get_elem collects info about /bootflash/installer fs
polaris_disk_install_read(polarisCfgmgr_t)
# cfgmgr_show_system_get_elem() collects available mem info by executing
# /bin/df /tmp/rp/tlddb'
polaris_tlddb_list_dirs(polarisCfgmgr_t)

#vip_binos_cpuinfo() performs file operations on PROC_CPUSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polarisCfgmgr_t)
#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernal_read_system_state(polarisCfgmgr_t)
# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polaris_cfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_cfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_cfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polaris_cfgmgr_t)
allow polaris_cfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_cfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_cfgmgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.te
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dnl
dnl May 2018, Manohar Hungund
dnl
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dnl
dnl Starfleet Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`bp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 1)
max_bay_map_set(`fp', `per_bay', 1)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`bp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 1)
max_bay_ripc_map_set(`bp', `per_bay', 1)
max_bay_ripc_map_set(`cc', `per_bay', 1)

max_bay_ripc_map_set(`rp', `per_bay', 1)
min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`bp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 1)
max_bay_ripc_map_set(`bp', `global', 1)
max_bay_ripc_map_set(`cc', `global', 1)
max_bay_ripc_map_set(`fp', `global', 1)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/bigbangmaps.m4
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dnl
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dnl
dnl Nyquist Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 0)
max_bay_map_set(`fp', `per_bay', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 0)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 0)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`cc', `elastic', BPROC_WNCD, 0)
max_elastic_map_set(`fp', `elastic', BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/quake2maps.m4
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# August 2017, Shawn Lu
#
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#

# polarisodmproxy file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodmproxy.fc
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#
# August 2017, Shawn Lu
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## <summary>Polaris rif_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrifmgr.if
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# March 2017, Victor Kamensky
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#
# # August 2018 Man-Yee Hau
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#

/usr/cpp/bin/qfp-ucode-csr -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-us -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csx -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-c8kv -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-wlc -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-utah -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-tns-le -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-supernova -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-blackheart -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
# qfp memif interfaces

/bootflash/SHARED-IOX/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)
/tmp/memif(/.*)? gen_context(system_u:object_r:polaris_qfp_memif_t,s0)

# CSR & C8KV infiniband devices for Azure
/dev/infiniband/uverbs[0-9]* -c gen_context(system_u:object_r:polaris_infiniband_device_t,s0)

/etc/rc\d/init\d/iodbd\sh -- gen_context(system_u:object_r:polaris_iodbd_exec_t,s0)

# For Intel quickassist (qat) v1.5 - Note that mcp_family also includes this.
# fugazi uses polarismcp.fc and polarisqfp.fc so need to exclude it here.
ifndef(`mcp_family',`'
/dev/icp_adf_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/icp_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s)
')

# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_dr  -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_icp_ctl -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_dev_processes -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

# For platforms which use the musdk from the Marvell 10.3.x.x SDK
/dev/musdk-cma -c gen_context(system_u:object_r:polaris_icp_device_t,s0)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
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#

/usr/bin/os/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/bin/os/conf/sshd_service.sh -- gen_context(system_u:object_r:polaris_tservice_ssh_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.fc
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/usr/bin/os/conf/rollback_timer.sh -- gen_context(system_u:object_r:polaris_rbtimer_exec_t,s0)

/bootflash/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_bootflash_t,s0)
/tmp/rp/rollback_timer(/.*)? gen_context(system_u:object_r:polaris_rbtimer_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrollbacktimer.fc
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dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
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dnl
dnl Katar WLC Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set(`fp', `elastic', BPROC_ODM, 1)

max_elastic_map_set(`rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 7)

max_elastic_map_set(‘rp’, ‘elastic’, BPROC_ODM, 7)
max_elastic_map_set(‘cc’, ‘elastic’, BPROC_ODM, 1)
max_elastic_map_set(‘fp’, ‘elastic’, BPROC_ODM, 1)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/katarmaps.m4
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#

# polariscontainer file contexts place holder

# All the possible IOX flash_dir/harddisk_dir from iox_polaris.conf for docker
# Expected labels for docker as per container.fc
/bootflash/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/docker/.*config\env gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*containers/.*\log gen_context(system_u:object_r:container_log_t,s0)
/bootflash/docker/.*containers/.*hostname gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*containers/.*hosts gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/bootflash/docker/.*overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)

/bootflash/iox_alt_hdd_mount_dir/docker(/.*)?
    gen_context(system_u:object_r:container_var_lib_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*config\env
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*\log
gen_context(system_u:object_r:container_log_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*hostname
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*containers/.*hosts
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/.*overlay(/.*)?
ifdef(`nyquist_platform',
/flash1/iox_alt_hdd_mount_dir/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/config\env gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/.*\log gen_context(system_u:object_r:container_log_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hostname gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hosts gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)
)
ifdef(`passport_platform',
/flash1/iox_alt_hdd_mount_dir/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/config\env gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/.*\log gen_context(system_u:object_r:container_log_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hostname gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/containers/.*/hosts gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/init(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/overlay(/.*)? gen_context(system_u:object_r:container_share_t,s0)
/flash1/iox_alt_hdd_mount_dir/docker/.*/overlay2(/.*)? gen_context(system_u:object_r:container_share_t,s0)
)
policy_module(polarissortfiles, 1.0);

gen_require('
	type polaris_sort_files_t;
')

corecmd_exec_bin(polaris_sort_files_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_sort_files_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_sort_files_t)

polaris_btrace_data_manage(polaris_sort_files_t)
polaris_chasfs_manage(polaris_sort_files_t)
polaris_rmonbifo_tmp_read(polaris_sort_files_t)
polaris_read_debug_conf(polaris_sort_files_t)
polaris_persistent_getattr(polaris_sort_files_t)
polaris_persistent_list_dirs(polaris_sort_files_t)
polaris_cpld_read(polaris_sort_files_t)
polaris_capsule_upgrade_log_use(polaris_sort_files_t)
optional_policy('
	polaris_gnmib_gnoi_images_read(polaris_sort_files_t)
')

# Dontaudit /bootflash/#lost+found avc denials
dontaudit polaris_sort_files_t polaris_disk:chr_file { getattr };
dontaudit polaris_sort_files_t polaris_disk:blk_file { getattr };

---

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  20344
#allow polaris_sort_files_t polaris_udev_tmp_files_t:dir { getattr search };
polaris_udev_tmp_list_dirs(polaris_sort_files_t)

optional_policy('polaris_iox_dir_list(polaris_sort_files_t)
')
polaris_sandbox_file_dir_list(polaris_sort_files_t)
polaris_disk_bootflash_read_link(polaris_sort_files_t)
polaris_disk_bootflash_fifo_file_getattr(polaris_sort_files_t)
polaris_disk_bootflash_sock_file_getattr(polaris_sort_files_t)

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_sort_files_t)

#allow manage the files under /tmp/sort
type polaris_sort_files_tmp_t;
files_tmp_file(polaris_sort_files_tmp_t)
files_tmp_filetrans(polaris_sort_files_t, polaris_sort_files_tmp_t, file)
manage_files_pattern(polaris_sort_files_t, polaris_sort_files_tmp_t, polaris_sort_files_tmp_t)

# for pluggable FS, allow sort to access files on them.
polaris_getattr removable(polaris_sort_files_t)
polaris_removable manage(polaris_sort_files_t)
fs_read removable symlink (polaris_sort_files_t)

# to look at files sort_file sometime needs to violate DAC permissions
allow polaris_sort_files_t self:capability dac_read_search;

optional_policy('غالبًا ما تكون سياسة اختيارية
# LOOK AT ME memif sock_file interface present in /bootflash as
# /bootflash/SHARED-IOX/memif/memif-dp-svr, since class of the
# object is sock_file adding it to polaris_disk does not make much
# sense
gen_require('polaris_qfp_memif_t;
')
getattr sock_files pattern(polaris_sort_files_t, polaris_qfp_memif_t, polaris_qfp_memif_t)
')

# find runs fstatfs
fs_getattr xattr fs(polaris_sort_files_t)

# allow polaris_sort_files_t fs_t:filesystem getattr
fs_getattr_all_fs(polaris_sort_files_t)
# with "/bootflash"...this needs attr to access for logfile
polaris_user_file_getattr(polaris_sort_files_t)

optional_policy(
  gen_require(
    type polaris_efi_files_t;
  )
  #find /bootflash/-printf %i %p
  allow polaris_sort_files_t polaris_efi_files_t:dir { getattr open read search };
  #stat -c %i %f %s %n /bootflash/EFI/UpdateCapsule/UpdateCapsuleFile.bin
  allow polaris_sort_files_t polaris_efi_files_t:file getattr;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.te
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#
# June 2017, Victor Kamensky
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#

policy_module(polarisioxman, 1.0);

gen_require(
  type polaris_ioxman_t;
)

polaris_btrace_data_manage(polaris_ioxman_t)
polaris_chasfs_manage(polaris_ioxman_t)
polaris_tdlresolve_read(polaris_ioxman_t)
polaris_tdlldb_list_dir(polaris_ioxman_t)
polaris_cpld_read(polaris_ioxman_t)
polaris_lua_read(polaris_ioxman_t)
polaris_flashlib_read(polaris_ioxman_t)
polaris_ripc_sman_ui_serv_connect(polaris_ioxman_t)
polaris_db_tdlldb_dir_use(polaris_ioxman_t)

#allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)

corenent_tcp_connect_polaris_caf_api_port(polaris_ioxman_t)
# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_ioxman_t)

# ioxman interacting with caf through api http interface and
# is uses curl library to send requests to caf. curl wants
# to do getsockopt with SOL_SOCKET,
# allow polaris_ioxman_t self/tcp_socket getopt;

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_ioxman_t)

corecmd_exec_bin(polaris_ioxman_t)
corecmd_exec_shell(polaris_ioxman_t)

# allow to run mount in its own domain; guestshell_set_netns.sh
# needs it; also, read and exec the set_netns script.
# ioxman_setup_guestshell_namespace invokes the script
# using NAMESPACE_COMMAND
mount_domtrans(polaris_ioxman_t)
polaris_guestshell_files_read(polaris_ioxman_t)
polaris_guestshell_exec_files_exec(polaris_ioxman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_ioxman_t)

# guestshell_set_netns.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_ioxman_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_ioxman_t)

# modifies /bootflash/iox/iox_app/guestshell_iox.json
polaris_iox_files_manage(polaris_ioxman_t)

# guestshell_set_netns.sh touches /var/run/nts/guestshell
files_pid_filetrans(polaris_ioxman_t, polaris_guestshell_var_run_t, file, "guestshell")
polaris_guestshell_var_run_files_manage(polaris_ioxman_t)

# Read and write the all pty
term_use_generic_ptys(polaris_ioxman_t)

# allow ioxman_syslib.sh to set uid/gid for screen
allow polaris_ioxman_t self:capability { dac_override setgid setuid }

# ioxman execve virsh
gen_require(
    type virsh_t;
type virsh_exec_t;
')
domtrans_pattern(polaris_ioxman_t, virsh_exec_t, virsh_t)
# virsh needs to write into /tmp/rp/trace/iox_guestshell.log
polaris_btrace_data_manage(virsh_t)

# ioxman is vman client over @vman_domain_socket socket
optional_policy('polaris_vman_use_client_socket(polaris_ioxman_t)
')

# ioxman uses VS_OPER_DB from virtual_services_tbl_init
polaris_tlddbpersist_setup(polaris_ioxman_t)
polaris_tmp_tlddb_persist_setup(polaris_ioxman_t)

# ioxman through libcurl library hit c-ares DNS code needs
# udp sockets access
allow polaris_ioxman_t self:udp_socket connect;

logging_send_syslog_msg(polaris_ioxman_t)

# read /opt/cisco/caf/config/system-config.ini
polaris_caf_files_read(polaris_ioxman_t)
virt_manage_sandbox_files(polaris_ioxman_t)

# handle ioxman /tmp files like /tmp/iox_xml.dat
type polaris_iox_tmp_t;
files_tmp_file(polaris_iox_tmp_t)
polaris_iox_manage_tmp_files(polaris_ioxman_t)

# by some strange reason ioxman munges files in /bootflash/tracelogs
# please see iox_tracefile_restore in ioxman/src/im_serial.c
polaris_btrace_persistent_data_manage(polaris_ioxman_t)

# virsh execved from ioxman inherits stdout from ioxman
gen_require('type polaris_ioxman_bt_t;
type virsh_t;
')
allow virsh_t polaris_ioxman_bt_t:file write;

optional_policy('gen_require('attribute polaris_domain;
attribute polaris_extended_domain;
type container_runtime_t;
')
typeattribute container_runtime_t polaris_domain;

typeattribute container_runtime_t polaris_extended_domain;

#/usr/binos/conf/shell_exec.sh policy

polaris_utility_domain_template(iox_shell)

polaris_bexecute_domain(polaris_iox_shell_t, polaris_iox_shell_exec_t)
# shell_exec call bexec.sh
polaris_bexecute_domtrans(polaris_iox_shell_t)
corecmd_exec_bin(polaris_iox_shell_t)
polaris_chasfs_read(polaris_iox_shell_t)
auth_use_nsswitch(polaris_iox_shell_t)
fs_getattr_tmpfs(polaris_iox_shell_t)

mount_domtrans(polaris_iox_shell_t)

# inherit stdin from telnetd
telnet_use_ptys(polaris_iox_shell_t)

# create files under /bootflash/iox
polaris_iox_files_manage(polaris_iox_shell_t)

# executing guestshell.sh
polaris_guestshell_exec_files_exec(polaris_iox_shell_t)
polaris_guestshell_files_read(polaris_iox_shell_t)

# executing "ip netns exec guestshell /usr/bin/ssh ...
sysnet_exec_ifconfig(polaris_iox_shell_t)
fs_read_nsfs_files(polaris_iox_shell_t)
files_mounton_rootfs(polaris_iox_shell_t)
dev_mounton_sysfs(polaris_iox_shell_t)
allow polaris_iox_shell_t self:netlink_route_socket rw_netlink_socket_perms;
dev_mount_sysfs_fs(polaris_iox_shell_t)
dev_unmount_sysfs_fs(polaris_iox_shell_t)

# executing ssh
corenet_tcp_connect_ssh_port(polaris_iox_shell_t)
ssh_exec(polaris_iox_shell_t)
allow polaris_iox_shell_t self:tcp_socket { connect getattr getsockopt setsockopt shutdown };

# ssh creates /root/.ssh directory
userdom_create_user_home_dirs(polaris_iox_shell_t)

# read /etc/guestshell_rsa_key
polaris_guestshell_key_read(polaris_iox_shell_t)
# work with sendbox files
polaris_sandbox_file_dir_list(polaris_iox_shell_t)

polaris_caf_var_run_files_manage(polaris_iox_shell_t)

# shell_exec.sh invokes:
# mkdir /tmp/shell_exec
# create /tmp/shell_exec/*
type polaris_iox2iosd_tmp_t;
files_tmp_file(polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t)
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, dir, ".shell_exec")
/files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
# allow shell_exec to manage /tmp/ncsshd Authorized_keys
polaris_ncsshd_keys_manage(polaris_iox_shell_t)
# allow shell_exec to manage /tmp/shell_exec/* files
polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)
# allow shell_exec to work with files created by iosd
polaris_iosd2iox_tmp_manage(polaris_iox_shell_t)
ifdef(`nyquist_platform`,
  # Manage alternate hdd files
  polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
)
ifdef(`passport_platform`,
  # Manage alternate hdd files
  polaris_iox_alt_hdd_manage(polaris_iox_shell_t)
)
allow polaris_iox_shell_t self:capability { chown dac_override fowner fsetid setgid setuid dac_read_search };
allow polaris_iox_shell_t self:cap_userns sys_admin;
allow polaris_iox_shell_t self:process setfscreate;

# LOOK AT ME very fishy iox_shell executes
# /bootflash/iox/repo-lxc/guestshell/rootfs_mnt/cisco/shell_exec.sh that
# actually can be modified from container itself. File is recreated
# each guestshell activation and it seems not executed afterwards.
# Grant access for now. Need to look closely whether it could be exploited
# in some way
virt_exec_sandbox_files(polaris_iox_shell_t)

# ip command called from iox_shell, running it under
# iox_shell domain, add required mounton on unlabled_t
files_mounton_isid(polaris_iox_shell_t)

# read guestshell net namespace file
fs_read_nsfs_files(polaris_ioxman_t)

# need to create /bootflash/gs_script/db.ini file
polaris_bootflash_manage(polaris_ioxman_t)
polaris_harddisk Manage(polaris_ioxman_t)

# run_ioxn_secure_dir.sh policy
gen_require(''
    type polaris_iox_secure_dir_t;
')
corecmd_exec_bin(polaris_iox_secure_dir_t)
auth_use_nsswitch(polaris_iox_secure_dir_t)
polaris_caf_files_read(polaris_iox_secure_dir_t)
polaris_chasfs_manage(polaris_iox_secure_dir_t)
polaris_bootflash Manage(polaris_iox_secure_dir_t)
polaris_harddisk Manage(polaris_iox_secure_dir_t)
polaris_iox_files Manage(polaris_iox_secure_dir_t)

# /bin/cat9k_ssd_auth_cmds.sh
polaris_utility_domain_template(ssd_auth)

corecmd_exec_bin(polaris_ssd_auth_t)
storage_getattr_fixed_disk_dev(polaris_ssd_auth_t)

# allow to read /etc/passwd
auth_use_nsswitch(polaris_ssd_auth_t)

fs_getattr_tmpfs(polaris_ssd_auth_t)

# execute hdparam in its own domain
fstools_domtrans(polaris_ssd_auth_t)

polaris_use_btrace_fifo(polaris_ssd_auth_t)

type polaris_ssd_auth_tmp_t;
files_tmp_file(polaris_ssd_auth_tmp_t)
# bash tmp files like /tmp/sh-thd.kxX3sc
files_tmp_filetrans(polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t, file)
manage_files_pattern(polaris_ssd_auth_t, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
# /tmp/ssd_blk_device created by udev
gen_require(''
    type udev_t;
    type tmpfs_t;
    type tmp_t;
')
filetrans_pattern(udev_t, {tmpfs_t tmp_t}, polaris_ssd_auth_tmp_t, file, "ssd_blk_device")
polaris_getattr_harddisk(polaris_ssd_auth_t)

fs_read_cgroup_files(polaris_ioxman_t)
# Allow ioxman to download package files using url
polaris_caf_tmp_files_manage(polaris_ioxman_t)
polaris_cli_fs_cmds_domtrans(polaris_ioxman_t)
# ufs information captured by the chasfs utils
optional_policy(
    polaris_ncd_tmp_read(polaris_ioxman_t)
)
gen_require(
    type polaris_fts_client_tmp_t;
)
manage_files_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
manage_dirs_pattern(polaris_ioxman_t, polaris_fts_client_tmp_t, polaris_fts_client_tmp_t)
allow polaris_ioxman_t tmp_t:file { create open unlink write };

# get_orchestration_template in cgroup_init_common.sh reads
# ovf-env.xml file from removable and varied
fs_read_removable_files(polaris_ioxman_t)
polaris_disk_varied_read(polaris_ioxman_t)

# writes into /tmp/trace/resource.log
optional_policy(
    polaris_vman_tmp_manage(polaris_ioxman_t)
)

# watch over /tmp/udev/etc/udev/usbflash1 in iox_media_chasfs_watch
polaris_udev_tmp_read(polaris_ioxman_t)
polaris_udev_tmp_watch(polaris_ioxman_t)

ifdef(\nyquist_platform',
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
)

dev_getattr_fs(polaris_iox_shell_t)
kernell_read_system_state(polaris_iox_shell_t)

gen_require(
    type virt_lxc_var_run_t;
)
read_files_pattern(polaris_ioxman_t, virt_lxc_var_run_t, virt_lxc_var_run_t)

# sys_resource denial is seen even on factory reset
allow polaris_ioxman_t self:capability sys_resource;

ifdef(\passport_platform',
    # Manage alternate hdd files
    polaris_iox_alt_hdd_manage(polaris_ioxman_t)
)
polaris_iosd_vcpu_read(polaris_ioxman_t)

# work with files like /tmp/guestinfo_status.txt
polaris_iosd2iox_tmp_manage(polaris_ioxman_t)

gen_require(
    type screen_var_run_t;
    type screen_exec_t;
)

# allow ioxman to set up ttys for screen
polaris_caf tty_lnk_manage(polaris_ioxman_t)

# allow ioxman_syslib.sh to invoke screen
screen_exec(polaris_ioxman_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_ioxman_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_ioxman_t, screen_var_run_t, dir, "screens")

# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_ioxman_t self:unix_stream_socket { create_socket_perms connectto }; manage_dirs_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t) manage_sock_files_pattern(polaris_ioxman_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_ioxman_t) polaris_bexecute_domain(polaris_ioxman_t, screen_exec_t) # allow bexecute to access the /tmp/screens/*.sid files gen_require(
    type polaris_bexecute_t;
)
manage_files_pattern(polaris_bexecute_t, screen_var_run_t, screen_var_run_t)

# allow shell_exec to manage /tmp/.ncsshd_authorized_keys
polaris_nccshd_keys Manage(polaris_iox_shell_t) polaris_iox2iosd_tmp_manage(polaris_iox_shell_t)

# allow shell_exec to manage guestshell files
gen_require(
    type container_file_t;
manage_files_pattern(polaris_iox_shell_t, container_file_t, container_file_t)

# allow ioxman to setattr for /dev/pts relating to screen
gen_require('  
  type telnetd_devpts_t;  
')
allow polaris_ioxman_t telnetd_devpts_t:chr_file setattr_chr_file_perms;

# allow ioxman to access the /tmp/ttyF*. files
gen_require('  
  type fifo_var_run_t;  
')
files_tmp_filetrans(polaris_ioxman_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_ioxman_t, fifo_var_run_t, fifo_var_run_t)

# allow ioxman to access rootfs and sysfs
# The same is needed when guestshell uses a passwordless SSH, when users do
# like "guestshell run bash" from IOS and it provides a bash shell screen
# in IOS.

gen_require('  
  type ssh_home_t;  
')

ssh_filetrans_admin_home_content(polaris_iox_shell_t)
allow polaris_iox_shell_t ssh_home_t:dir {create search getattr};
dev_getattr_sysfs_fs(polaris_iox_shell_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismqipc.te
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# March 2017, Victor Kamensky
#
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#
/var/run/cli_agent\.pid --gen_context(system_u:object_r:polaris_cli_agent_var_run_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscliagent.fc

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#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisvxe, 1.0);

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`
  type polaris_hanet_device_t;
  dev_node(polaris_hanet_device_t)
')

# on ultra in some cloud configuration runs dhclient utility
# receive meta information from cloud provider, /var/lib/dhcp
# directory is created by initr_t
gen_require(`
  type dhcpc_t;
  type intrec_t;
  type dhcp_state_t;
')
files_var_lib_filetrans({ dhcpc_t initr_t }, dhcp_state_t, dir, "dhcp")

# during boot on misc cloud environment ultra image creates directory
# in /tmp to keep information received from cloud provider. Since latter
# it is copied into /varied directory let's assigned polaris_disk_varied_t
# to them
gen_require(`
  type initr_t;
  type polaris_disk_varied_t;
  type unconfined_service_t;
')
files_tmp_filetrans({ unconfined_service_t initr_t }, polaris_disk_varied_t, dir, "ami")
# park policy for small polaris process umbrella_init.sh here

gen_require('  
    type polaris_umbrella_init_t;
')
polaris_bootflash_manage(polaris_umbrella_init_t)
corecmd_exec_bin(polaris_umbrella_init_t)
auth_use_nsswitch(polaris_umbrella_init_t)

# define added to address issues related to dependency

# on mcp-platform-tdl for db defines
ifndef('vpcgw_platform','
  type polaris_gnmib_t;
')

# on vxe all processes read grub_cisco_version in polaris_disk_varied_t

gen_require('  
    attribute polaris_domain;
')
polaris_disk_varied_search(polaris_domain)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_vxeinstall_info_t;
polaris_pfile_type(polaris_vxeinstall_info_t)

gen_require('  
    type unconfined_service_t;
    type polaris_disk_varied_t;
')

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vxeinstall_info_t, file, ".install_info")
# on C8KV all processes read grubenv in EFI disk partition

gen_require('  
    attribute polaris_domain;
')
polaris_grub_efi_search(polaris_domain)

gen_require('  
    type unconfined_service_t;  
    type polaris_disk_varied_t;  
    type polaris_obfl_data_t;
')

# unconfined service create /boot/obfl_temp_k1/2/3 if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k1")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k2")
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_obfl_data_t, file, "obfl_temp_k3")

# handle /tmp/vxe_disk_XXX_YYY files

gen_require('  
    type unconfined_service_t;
')
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)

#/etc/init.d/sshd that runs under initrc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically bootflash, but on MBRv2/MBRv4/GPTv1/GPTv3
# partition layouts it could be separate /config partition that is
# under polaris_disk_config_t label

gen_require('  
    type initrc_t;  
    type ssh_home_t;
')
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.te
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#
# July 2017, Victor Kamensky
#
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policy_module(polarisissumonitor, 1.0);

polaris_process_domain_template(issu_monitor)

corecmd_exec_bin(polaris_issu_monitor_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_issu_monitor_t)

polaris_btrace_data_manage(polaris_issu_monitor_t)
polaris_chasfs_manage(polaris_issu_monitor_t)
polaris_cpld_read(polaris_issu_monitor_t)
polaris_proc_rmonbifo_read(polaris_issu_monitor_t)
polaris_boot_tmp_read(polaris_issu_monitor_t)
polaris_read_debug_conf(polaris_issu_monitor_t)

# read and possibly create /bootflash/issuer_crash dir
polaris_bootflash_manage(polaris_issu_monitor_t)

allow polaris_issu_monitor_t self:capability sys_resource;
allow polaris_issu_monitor_t self:process setpgid;

type polaris_issu_monitor_tmp_t;
files_tmp_file(polaris_issu_monitor_tmp_t)
files_tmp_filetrans(polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t, dir, "issu_mon_dir")
manage_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_dirs_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)
manage_fifo_files_pattern(polaris_issu_monitor_t, polaris_issu_monitor_tmp_t, polaris_issu_monitor_tmp_t)

# access to /tmp/ufs/harddisk
optional_policy(
  polaris_ncd_tmp_read(polaris_issu_monitor_t)
  )

# access to /bootflash/issuer_crash
polaris_disk_install_read(polaris_issu_monitor_t)

# access to /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris_issu_monitor_t)

# read /proc/cmdline
kernel_read_system_state(polaris_issu_monitor_t)

# rm -rf /tmp/rp/issu_mon_dir
fs_getattr_tmpfs(polaris_issu_monitor_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissumonitor.te
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#
# February 2018, Manohar Hungund
#
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#

policy_module(polarisact2, 1.0);

******************************************************************************
# ACT2 Chip Driver policy
******************************************************************************

type polaris_act2_device_t;
dev_node(polaris_act2_device_t)

******************************************************************************
# /tmp/hw_entropy file.
# Certain platforms save entropy from main board ACT-2 chip in this file.

type polaris_hw_entropy_t;
files_tmp_file(polaris_hw_entropy_t)

******************************************************************************

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisact2.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polariscppha, 1.0);

gen_require(`
    type polaris_cpp_ha_t;
polaris_btrace_data_manage(polaris_cpp_ha_t)
polaris_crft_data_manage(polaris_cpp_ha_t)
polaris_chasfs_manage(polaris_cpp_ha_t)
polaris_tdlresolve_read(polaris_cpp_ha_t)
polaris_tdlldb_list_dirs(polaris_cpp_ha_t)
polaris_cpld_read(polaris_cpp_ha_t)
polaris_flashlib_read(polaris_cpp_ha_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_ha_t)
polaris_db_tdlldb_dir_use(polaris_cpp_ha_t)
polaris_cpp_process(polaris_cpp_ha_t)
polaris_cpp_dev_use(polaris_cpp_ha_t)
polaris_icc_broken_relocations(polaris_cpp_ha_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_ha_t)

# allow objstore access
polaris_disk_objstore_read(polaris_cpp_ha_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef(`crankshaft_family',`
  polaris_dev_mem_use(polaris_cpp_ha_t)
  )

# allow syslogging
logging_send_syslog_msg(polaris_cpp_ha_t)

optional_policy(`
  polaris_cbdma_dev_use(polaris_cpp_ha_t)
  )
polaris_cpld_dev_use(polaris_cpp_ha_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.te
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#
# March 2017, Victor Kamensky
#
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#
policy_module(polariscppsp, 1.0);

    gen_require(
        type polaris_cpp_sp_t;
    ')

polaris_trace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manager(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdl_db_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_rpc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdl_db_dir_use(polaris_cpp_sp_t)
polaris_cpp_process(polaris_cpp_sp_t)
polaris_cpp_dev_use(polaris_cpp_sp_t)
polaris_icc_broken_relocations(polaris_cpp_sp_t)
polaris_cpp_cavium_sdk_ipc_use(polaris_cpp_sp_t)

# LOOK AT ME: raw memory access in cavium vendor SDK
# related to octeon driver (BUG CSCvh58515)
ifdef('crankshaft_family','
polaris_dev_mem_use(polaris_cpp_sp_t)
')

# allow syslogging
logging_send_syslog_msg(polaris_cpp_sp_t)

optional_policy('
polaris_cbdma_dev_use(polaris_cpp_sp_t)
')
polaris_cpld_dev_use(polaris_cpp_sp_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.te
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#
# March 2017, Victor Kamensky
#
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#

/usr/binos/conf/reflector.sh -- gen_context(system_u:object_r:polaris_reflector_exec_t,s0)
/tmp/rp/reflector(/.*)? gen_context(system_u:object_r:polaris_reflector_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.fc
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarissifmgr, 1.0);

gen_require('type polaris_sif mgr_t;
')
polaris_btrace_data_manage(polaris_sif_mgr_t)
polaris_crft_data_manage(polaris_sif_mgr_t)
polaris_chasfs_manage(polaris_sif_mgr_t)
polaris_tdlresolve_read(polaris_sif_mgr_t)
polaris_tdlldb_list_dirs(polaris_sif_mgr_t)
polaris_cpld_read(polaris_sif_mgr_t)
polaris_lua_read(polaris_sif_mgr_t)
polaris_flashlib_read(polaris_sif_mgr_t)

#If romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_sif_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_sif_mgr_t)

corecmd_exec_bin(polaris_sif_mgr_t)
corecmd_exec_shell(polaris_sif_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use NSSwitch(polaris_sif_mgr_t)

# allow to read /proc/mtd
kernel_read_system_state(polaris_sif_mgr_t)

#allow write /proc/dplr_sesa
optional_policy(
    polaris_proc_sesa_create_write(polaris_sif_mgr_t)
)

# access SERDES /tmp/serdes_asic_key_dir/
polaris_serdes_asic_key_tmp_manage(polaris_sif_mgr_t)

# allow read/write to /proc/irq/N/irq files
kernel_rw_irq_sysctls(polaris_sif_mgr_t)

# work with /tmp files (/tmp/sm_post_result)
type polaris_sif_mgr_tmp_t;
files_tmp_file(polaris_sif_mgr_tmp_t)
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sm_post_result")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "fips_status")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_0")
files_tmp_filetrans(polaris_sif_mgr_t, polaris_sif_mgr_tmp_t, file, "sif_regdump_1")
manage_files_pattern(polaris_sif_mgr_t, tmp_t, polaris_sif_mgr_tmp_t)
polaris_cm_rp_tmp_manage(polaris_sif_mgr_t)

#allow ipc_lock when mmap64(..) a shared mememoy with MAP_LOCKED in dplr_pkt_drv_oob.c
allow polaris_sif_mgr_t self:capability { ipc_owner dac_override ipc_lock };

#allow read from /tmp/hw_entropy
polaris_hw_entropy_read(polaris_sif_mgr_t)

polaris_obfl_data_manage(polaris_sif_mgr_t)

# /dev/dplr_intrpt usage
polaris_dplr_dev_use(polaris_sif_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_sif_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_sif_mgr_t)

polaris_lsmpi_dev_use(polaris_sif_mgr_t)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_sif_mgr_t)

polaris_socketat_nsfs_read(polaris_sif_mgr_t)

allow polaris_sif_mgr_t self:process setsched;

# work with /dev/msi/Slot0/Doppler0/GroupN files
dev_rwlock_generic_chr_files(polaris_sif_mgr_t)
# /dev/mii/Slot0/Doppler0/GroupN gets polaris_dplr_device_t label
# at some point, but need above generic chr permission by some
# reason, not clear need to look a bit more
polaris_dplr_dev_use(polaris_sif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_sif_mgr_t self:tcp_socket ioctl;

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_sif_mgr_t)

# /dev/shm/sdm access
optional_policy('polaris_sdmc_shm_manage(polaris_sif_mgr_t)
')

# LOOK AT ME: unsolicited creation of file in /bootflash
# by CSCvm43512. Backout when CSCvm99282 is fixed
polaris_bootflash_manage(polaris_sif_mgr_t)
polaris_disk_bootflash_read_lnk(polaris_sif_mgr_t)

optional_policy('polaris_quake_i2c_manage(polaris_sif_mgr_t)
')

# __get_nprocs opens /sys/devices/system/cpu/online
ifdef('quake_platform',
  dev_read_sysfs(polaris_sif_mgr_t)
')

optional_policy('polaris_ngwc_scc_shm_manage(polaris_sif_mgr_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.te
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# August 2017, Shawn Lu
#
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#
# polariswncmgrd file contexts place holder
#gRPC certificate for ICap, written and read by wncmgrd
/bootflash/NACert.pem           gen_context(system_u:object_r:polaris_icap_cert_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncmgrd.fc
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dnl
dnl July 2020, Victor Kamensky
dnl
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dnl
dnl ISRV Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 3)
max_bay_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 0)
max_bay_ripc_map_set(`cc', `per_bay', 3)
max_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `global', 0)
max_bay_ripc_map_set(`cc', `global', 3)
max_bay_ripc_map_set(`fp', `global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/isrvmaps.m4
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#

policy_module(polarismcp, 1.0);

# scooby device
type polaris_scooby_device_t;
dev_node(polaris_scooby_device_t)

# spa devices i.e sys_platform_module_1ng
type polaris_spa_device_t;
dev_node(polaris_spa_device_t)

# htdp device
type polaris_htdp_device_t;
dev_node(polaris_htdp_device_t)

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# dash fpga device (/dev/dash_fpga)
type polaris_dash_device_t;
dev_node(polaris_dash_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polaris_cpp_il_device_t;
dev_node(polaris_cpp_il_device_t)

# blzi_fpga device
type polaris_blzi_device_t;
dev_node(polaris_blzi_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# ds31408 device
type polaris_ds31408_device_t;
dev_node(polaris_ds31408_device_t)

# icp_ads_ctl device
#   Note that fugazi gets this from polarisqfp module
ifndef(`fugazi_platform`,`
    type polaris_icp_device_t;
dev_node(polaris_icp_device_t)
  `)

type polaris_cpp_htdp_device_t;
dev_node(polaris_cpp_htdp_device_t)

type polaris_cbdma_device_t;
dev_node(polaris_cbdma_device_t)
type polaris_n2_device_t;
dev_node(polaris_n2_device_t)

type polaris_cy2213_device_t;
dev_node(polaris_cy2213_device_t)

type polaris_vega_device_t;
dev_node(polaris_vega_device_t)

#if Fugazi makes use of fugazi_platform.tdl for IPCs and processes definition
# and it uses mcp_platform.tdl for databases definition. The below symbols
# are referred by mcp_platform.tdl but not fugazi_platform.tdl and hence these
# type definitions.
ifdef(`fugazi_platform',`

type polaris_fnf_agg_t;
'
)

optional_policy(`
# access to /dev/icc_XXX device on asr1k platforms

gen_require(`
    type polaris_cck_qat_t;
'
)polaris_icp_dev_use(polaris_cck_qat_t)
dev_list_sysfs(polaris_cck_qat_t)
polaris_chasfs_read(polaris_cck_qat_t)
polaris_cpld_read(polaris_cck_qat_t)
polaris_tdlresolve_read(polaris_cck_qat_t)
')

#endif

found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismcp.te
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#
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#
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#
# polarisioxman file contexts place holder

/usr/bin/os/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t,s0)

/usr/bin/os/conf/run_ioxn_secure_dir.sh -- gen_context(system_u:object_r:polaris_iox_secure_dir_exec_t,s0)

/bin/cat9k_ssd_auth_cmds.sh -- gen_context(system_u:object_r:polaris_ssd_auth_exec_t,s0)

/tmp/trace/resource.log -- gen_context(system_u:object_r:polaris_iox_tmp_t,s0)
/tmp/screens(/.*) -- gen_context(system_u:object_r:screen_var_run_t,s0)

/tmp/.shell_exec(/.*) -- gen_context(system_u:object_r:polaris_iox2iosd_tmp_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.fc
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#
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#

policy_module(polarisbsm, 1.0);

gen_require(
  
  type polaris_bsm_t;

)
polaris_btrace_data_manage(polaris_bsm_t)
polaris_chasfs_manage(polaris_bsm_t)
polaris_tdlresolve_read(polaris_bsm_t)
polaris_tdlldb_list_dirs(polaris_bsm_t)
polaris_cpld_read(polaris_bsm_t)
polaris_flashlib_read(polaris_bsm_t)
polaris_ripc_sman_ui_serv_connect(polaris_bsm_t)

optional_policy(
  polaris_bde_dev_use(polaris_bsm_t)
)

allow polaris_bsm_t self:capability sys_nice;
allow polaris_bsm_t self:process setsched;

# need access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_bsm_t)
# handling /var/tmp/bsm_bcm_shell

type polaris_bsm_bcm_shell_t;
files_type(polaris_bsm_bcm_shell_t)
gen_require('

type tmp_t;
')
filetrans_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t, fifo_file, "bsm_bcm_shell")
manage_fifo_files_pattern(polaris_bsm_t, tmp_t, polaris_bsm_bcm_shell_t)

ifdef('vxe_family',

# bind to BSM_AGENT_CLIENT_PORT port from bsm_tlv_init
corenet_tcp_bind_polaris_bsm_agent_client_port(polaris_bsm_t)
')

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_bsm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbsm.te
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#

/tmp/sm_post_result -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)
/tmp/fips_status -- gen_context(system_u:object_r:polaris_sif_mgr_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissifmgr.fc
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#
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## <summary>Polaris polarisissucompcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.if
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#
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#

policy_module(polarisngwcplfmmgr, 1.0);

gen_require(' type polaris_ngwc_plfm_mgr_t;''
)
polaris_btrace_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_crft_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_chasfs_manage(polaris_ngwc_plfm_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_plfm_mgr_t)
polaris_tlddb_list_dir(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polarisLua_read(polaris_ngwc_plfm_mgr_t)
polaris_flashlib_read(polaris_ngwc_plfm_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_plfm_mgr_t)
corecmd_exec_bin(polaris_ngwc_plfm_mgr_t)
corecmd_exec_shell(polaris_ngwc_plfm_mgr_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_ngwc_plfm_mgr_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { sys_rawio ipc_owner dac_override };
allow polaris_ngwc_plfm_mgr_t self:capability2 block_suspend;

polaris_obfl_data_manage(polaris_ngwc_plfm_mgr_t)
polaris_dyncfg_tmp_read(polaris_ngwc_plfm_mgr_t)
polaris_ngwc_shm_manage(polaris_ngwc_plfm_mgr_t)

# /dev/dmammap usage
polaris_dmammap_dev_use(polaris_ngwc_plfm_mgr_t)

# /dev/remap_mem0 usage
polaris_remap_mem_dev_use(polaris_ngwc_plfm_mgr_t)

# open /dev/ttyS0 console in edison_platform_init
term_use_unallocated_ttys(polaris_ngwc_plfm_mgr_t)

polaris_disk_license_read(polaris_ngwc_plfm_mgr_t)

allow polaris_ngwc_plfm_mgr_t self:capability { chown fowner fsetid ];

type polaris_ngwc_plfm_mgr_tmp_t;
files_tmp_file(polaris_ngwc_plfm_mgr_tmp_t)
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "microcode_update")
manage_files_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, dir, "mcu_upgrading")
manage_dirs_pattern(polaris_ngwc_plfm_mgr_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t, polaris_ngwc_plfm_mgr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polaris_ngwc_plfm_mgr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polaris_ngwc_plfm_mgr_t)

polaris_boot_tmp_read(polaris_ngwc_plfm_mgr_t)

polaris_flashlib_write(polaris_ngwc_plfm_mgr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polaris_ngwc_plfm_mgr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCvh66533 fixed
polaris_bootflash_manage(polaris_ngwc_plfm_mgr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polaris_ngwc_plfm_mgr_t)

# rsync nvram_config file accross stack
#rsync_exec(polaris_ngwc_plfm_mgr_t)
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polaris_ngwc_plfm_mgr_t, rsync_t)
allow rsync_t polaris_ngwc_plfm_mgr_t:process sigchld;
# write access to /dev/ttyS0
term_write_unallocated_ttys(rsync_t)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
polaris_kgv_data_manage(polaris_ngwc_plfm_mgr_t)

# /dev/shm/sdm access
optional_policy(''
polaris_sdm_shm_manage(polaris_ngwc_plfm_mgr_t)
'')

# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manager(polaris_ngwc_plfm_mgr_t)
allow polaris_ngwc_plfm_mgr_t self:process setfscreate;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcplfmmgr.te
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#
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#

policy_module(polarisgrmgr, 1.0);

gen_require(''
    type polaris_gr_mgr_t;
')

polaris_crft_data_manage(polaris_gr_mgr_t)
polaris_chasfs_manage(polaris_gr_mgr_t)
polaris_tdlresolve_read(polaris_gr_mgr_t)
polaris_cpld_read(polaris_gr_mgr_t)
polaris_lua_read(polaris_gr_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_gr_mgr_t)

allow polaris_gr_mgr_t self:capability { dac_override dac_read_search };
#DB persistence
polaris_tdldbpersistence(polaris_gr_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgrmgr.te
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# ngio devices
/dev/ngio[0-9]* -c gen_context(system_u:object_r:polaris_ngio_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngmd.fc
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#

/tmp/idope_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)
/tmp/shfwd_svr  gen_context(system_u:object_r:polaris_fed_debug_sock_t,s0)

/tmp/pktgen.txt  gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/DopeElam.sh  gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)
/tmp/MemDumpElam.sh  gen_context(system_u:object_r:polaris_fed_debug_tmp_t,s0)

/dcmlog.txt  -- gen_context(system_u:object_r:polaris_fed_debug_dcmlog_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.fc
No license file was found, but licenses were detected in source scan.

#
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#
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#

policy_module(polariscpld, 1.0);

################################################################################
# CPLD Driver policy
################################################################################

# note polaris_sysfs_cpld_t is defined in kernel/devices.te, since genfscon statements
# could be only in base policy

type polaris_cpld_device_t;
dev_node(polaris_cpld_device_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpld.te
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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrogued, 1.0);

gen_require(' type polaris Rogued_t;
')

polaris_btrace_data_manage(polaris Rogued_t)
polaris_chasfs_manage(polaris Rogued_t)
polaris_tdlresolve_read(polaris Rogued_t)
polaris_tlddb_list_dirs(polaris Rogued_t)
polaris_cpld_read(polaris Rogued_t)
polaris_lua_read(polaris Rogued_t)
polaris_flashlib_read(polaris Rogued_t)
polaris_ripc_sman_ui_serv_connect(polaris Rogued_t)
polaris_db_tlddb_dir_use(polaris Rogued_t)

# allow to use setrlimit
allow polaris Rogued_t self:process setrlimit;
allow polaris Rogued_t self:capability sys_resource;
allow polaris Rogued_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris Rogued_t)
polaris_socketat_nsfs_read(polaris Rogued_t)

## # allow to open udp socket on RDLP port 6532
corenet udp bind polaris rdlp port(polaris Rogued_t)
corenet udp bind generic node(polaris Rogued_t)
allow polaris Rogued_t self:udp_socket { create_socket_perms recv_msg send_msg };

# reading images/ap_capabilities.xml
polaris_wlc_ap_images_read(polaris Rogued_t)
# syslogs in RLDP
logging_send_syslog_msg(polaris_rogued_t)

# DB persistence
polaris_tlddbpersist_setup(polaris_rogued_t)
polaris_imp_tlddb_persist_setup(polaris_rogued_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
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#  

policy_module(polariscmm, 1.0);

gen_require(
   type polaris_cmm_t;
)

polaris_btrace_data_manage(polaris_cmm_t)
polaris_crft_data_manage(polaris_cmm_t)
polaris_chasfs_manage(polaris_cmm_t)
polaris_tdlresolve_read(polaris_cmm_t)
polaris_tldldb_list_dirs(polaris_cmm_t)
polaris_cpld_read(polaris_cmm_t)
polaris_flashlib_read(polaris_cmm_t)
polaris_ripc_sman_ui_serv_connect(polaris_cmm_t)

allow polaris_cmm_t self:capability dac_override;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.te
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_ripc_if.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_fc.m4
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_process_fc.m4
No license file was found, but licenses were detected in source scan.
## <summary>Polaris emd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisemd.if
No license file was found, but licenses were detected in source scan.

```c
policy_module(polariscaf, 1.0);

gen_require(
    type polaris_caf_t;
    type polaris_caf_exec_t;
    type usr_t;
    )

ifdef(`nyquist_platform',`
    gen_require(
        type polaris_sioxcd_rp_t;
        )
    # Allow read of /etc/passwd
    auth_map_passwd(polaris_sioxcd_rp_t)
```
# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)

# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t;
files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filetrans(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)

# Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)

# Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

# Allow /tmp/tmppub read
polaris_btrace_tmppub_read(polaris_sioxcd_rp_t)

# Allow iox_polaris.conf read
polaris_caf_files_read(polaris_sioxcd_rp_t)

# Allow chasfs access
polaris_chasfs_manage(polaris_sioxcd_rp_t)

# Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

# Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

# Allow cats /tmp/sw/boot/monbifo/boardssubtype
polaris_monbifo_tmp_read(polaris_sioxcd_rp_t)

# Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

# Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

# Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)

# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernel_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(
   polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
)

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)

polaris_chasfs_manage(polaris_caf_t)
polaris_btrace_data_manage(polaris_caf_t)
polaris_cpld_read(polaris_caf_t)
polaris_boot_tmp_read(polaris_caf_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_caf_t)
corecmd_exec_bin(polaris_caf_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_caf_t)

# run-caf.sh invokes startup.py. This leads to node_t:tcp_socket node_bind
corennet_tcp_bind_generic_node(polaris_caf_t)

allow polaris_caf_t self:capability { net_admin sys_resource };
allow polaris_caf_t self:tcp_socket { accept listen create_socket_perms };
allow polaris_caf_t self:udp_socket create_socket_perms;
allow polaris_caf_t self:unix_dgram_socket { create_socket_perms sendto }
allow polaris_caf_t self:cap_users { sys_admin sys_ptrace setgid setuid sys_chroot }

# df needs to have getattr on many file/dir/fs
fs_getattr_all_fs(polaris_caf_t)
fs_getattr_all_files(polaris_caf_t)
files_getattr_all_dirs(polaris_caf_t)
dev_getattr_all_chr_files(polaris_caf_t)
files_getattr_all_mountpoints(polaris_caf_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_caf_t)

# allow execution of /usr/sbin/brctl
brctl_domtrans(polaris_caf_t)

#allow open/read/search cgroup files like /sys/fs/cgroup/cpu,cpuacct/machine
fs_read_cgroup_files(polaris_caf_t)
fs_list_cgroup_dirs(polaris_caf_t)

# add new type for /guestshell files and allow CAF to manage them
type polaris_guestshell_t;
files_type(polaris_guestshell_t)
manage_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_link_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)
manage_dirs_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

#required to support, guestshell enable, which creates <iox-storage>/iox/repo/guestshell
relabelto_files_pattern(polaris_caf_t, polaris_guestshell_t, polaris_guestshell_t)

# run_ioxn_caf.sh invokes run-caf.sh which executes "ip"
sysnet_domtrans_ifconfig(polaris_caf_t)
# allow netns operations
sysnet_manage_ifconfig_run(polaris_caf_t)

libs_domtrans_ldconfig(polaris_caf_t)

# add new type for /bootflash/iox files and allow CAF to manage them
type polaris_iox_files_t;
polaris_disk_type(polaris_iox_files_t)
polaris_iox_files_manage(polaris_caf_t)

# need open, read, ioctl, getattr on /bootflash/debug.conf
polaris_read_debug_conf(polaris_caf_t)

# run_ioxn_caf.sh cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_caf_t)
# pvsm_cpu.sh reads /tmp/cgroup.log
optional_policy(`
polaris_vman_tmp_manage(polaris_caf_t)
`)

# allow to read /proc/cpuinfo
kernel_read_system_state(polaris_caf_t)

optional_policy(`
container_runtime_domtrans(polaris_caf_t)
`)

# add new type for /opt/cisco/caf files and allow CAF to manage them
type polaris_caf_files_t;
files_type(polaris_caf_files_t)
files_root_filetrans(polaris_caf_t, polaris_caf_files_t, dir)
files_root_filetrans(polaris_caf_t, polaris_caf_exec_t, dir, "scripts")
manage_dirs_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)
manage_link_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

gen_require(`
    type polaris_hm_t;
`)
polaris_caf_files_read(polaris_hm_t)

# this label is created for sharing of core file dirs between host and containers
type polaris_caf_core_files_t;
polaris_disk_type(polaris_caf_core_files_t)
# transition /local files and dirs
files_root_filetrans(polaris_caf_t, polaris_caf_core_files_t, dir, "local")
polaris_btrace_data_manage(polaris_caf_core_files_t)
manage_files_pattern(polaris_caf_core_files_t, usr_t, usr_t)

# manage local core files between host and container
polaris_caf_local_core_files_manage(polaris_caf_t)
polaris_caf_local_core_files_manage(brctl_t)

# run_ioxn_caf.sh invokes startup.py that eventually through resourcemanager.py
# calls cpu_count_logical function in order to get number of cores and which
# needs read access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_caf_t)

# run-caf.sh modifies iox_polaris.conf; backup is saved due to "sed-i.bak".
# in order to preserve security context, setfscreate is invoked
allow polaris_caf_t self:process setfscreate;

# work with /var/log/caf/ files
type polaris_caf_log_t;
logging_log_file(polaris_caf_log_t)
manage_files_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_log_t, polaris_caf_log_t)
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "caf")
logging_log_filetrans(polaris_caf_t, polaris_caf_log_t, dir, "docker")
corenets_tcp_bind_polaris_caf_api_port(polaris_caf_t)

virt_stream_connect(polaris_caf_t)
virt_read_config(polaris_caf_t)

# allow to get getattr of /proc file system
domain_read_all_domains_state(polaris_caf_t)

# allow access to /etc/guestshell_rsa_key* files
type polaris_guestshell_ssh_key_t;
files_type(polaris_guestshell_ssh_key_t)
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key")
files_etc_filetrans(polaris_caf_t, polaris_guestshell_ssh_key_t, file, "guestshell_rsa_key.pub")
manage_files_pattern(polaris_caf_t, polaris_guestshell_ssh_key_t, polaris_guestshell_ssh_key_t)

# add new type for "internal" temp files created by underlying python modules when
# user-level python scripts (e.g., run_ioxn_caf.sh, run-caf.sh, etc) performs init;
# we are now creating them using TMPDIR=/tmp/caf; and, allow CAF to manage these
# internal temp files; in addition, underlying python-infra invokes __mmap() that
# somehow translates to.... execute stuff like "/tmp/caf/#97893 (deleted)"
type polaris_caf_tmp_files_t;
files_tmp_file(polaris_caf_tmp_files_t)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, dir)
files_tmp_filetrans(polaris_caf_t, polaris_caf_tmp_files_t, file)
manage_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
# python through libffi tries to mmap open file with PROT_EXEC, it triggers need
# for execute permission
allow polaris_caf_t polaris_caf_tmp_files_t:file execute;
allow polaris_caf_t polaris_caf_tmp_files_t:file map;

# python3 seems to do a setxattr syscall
# A folder like /bootflash/iox/repoguestshell/extract_archive
# contains files that are extracted from a tarball and are
# made polaris_caf_tmp_files_t because of the files_tmp_filetrans rule
relabel_files_pattern(polaris_caf_t, polaris_iox_files_t, polaris_iox_files_t)
relabel_files_pattern(polaris_caf_t, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)

# allow to run e2fsck in its own domain
fstools_domtrans(polaris_caf_t)
# allow to run mount in its own domain
mount_domtrans(polaris_caf_t)

# add new type for /guestshell/*.sh files
type polaris_guestshell_exec_t;
files_type(polaris_guestshell_exec_t)

# add new type for /var/run/netns/guestshell
type polaris_guestshell_var_run_t;
files_type(polaris_guestshell_var_run_t)

# add new type for /var/run/cisco_cli
type polaris_caf_var_run_t;
files_psid_file(polaris_caf_var_run_t)
manage_dirs_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_files_pattern(polaris_caf_t, polaris_caf_var_run_t, polaris_caf_var_run_t)
files_psid_filetrans(polaris_caf_t, polaris_caf_var_run_t, { file dir })

# Intermediate step: When CAF unpacks the contents of the application
# you upload, it will stage the contents somewhere and verify some checks
# (filesystem check on the disk image, existence of several folders, etc.). Disk
# images are mounted without any label since CAF has not generated security
# labels yet for the app at this point. The disk gets unmounted and eventually
# gets mounted again with the proper context/label.
type polaris_disk_caf_t;
polaris_disk_type(polaris_disk_caf_t)
list_dirs_pattern(polaris_caf_t, polaris_disk_caf_t, polaris_disk_caf_t)

allow polaris_caf_t self:capability { chown dac_override fowner fsetid setfcap sys_chroot sys_ptrace }
allow polaris_caf_t self:process setcap;
fs_read_nsfs_files(polaris_caf_t)

# caf to manage loop device: finding free /dev/loopN device
dev_rw_loopcontrol(polaris_caf_t)

# PLEASE LOOK AT ME
# allow caf to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_caf_t)

# caf executing chroot via bash
gen_require(`
type svirt_sandbox_file_t;
`)
allow polaris_caf_t svirt_sandbox_file_t:file { execute execute_no_trans }
gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
setattr_dirs_pattern(polaris_caf_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
# replicating policy done for polaris_disk_bootflash_t
setattr_dirs_pattern(polaris_caf_t, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

# caf connects to its own port 8098
corennet_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virt_manage_sandbox_files(polaris_caf_t)

kernel_read_network_state(polaris_caf_t)

polaris_bootflash_manage(polaris_caf_t)
polaris_bootflash_files_mmap(polaris_caf_t)
# allow polaris_disk_harddisk_t manage like polaris_disk_bootflash_t
polaris_harddisk_manage(polaris_caf_t)

# caf execve virsh
gen_require(
    type virsh_t;
    type virsh_exec_t;
)
domtrans_pattern(polaris_caf_t, virsh_exec_t, virsh_t)
# virsh needs to read /opt/cisco/caf/scripts/ieobcbr.xml
polaris_caf_files_read(virsh_t)

# caf calls tipc-config that works with tipc sockets
allow polaris_caf_t self:socket create_socket_perms;
allow polaris_caf_t self:netlink_generic_socket { create_socket_perms sendto recvfrom };

# get and set attrs on httpd_var_run_t under /bootflash/iox
gen_require(
    type httpd_var_run_t;
)
getattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
setattr_sock_files_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
manage_dirs_pattern(polaris_caf_t, httpd_var_run_t, httpd_var_run_t)
# allow TCP connection for http port e.g. Local Manager
corennet_tcp_connect_http_port(polaris_caf_t)

# execute lvm commands, like lvs
lvm_domtrans(polaris_caf_t)
polaris_disk_crashinfo_getattr(polaris_caf_t)
optional_policy("
polaris_ncl_tmp_read(polaris_caf_t)
')

logging_send_syslog_msg(polaris_caf_t)

# tries to load KLM like cuse, fuse, overlay
modutils_domtrans_insmmod(polaris_caf_t)

# modifies files under /var/www/features/iox
apache_manage_sys_content(polaris_caf_t)

# caf reads version of ioxman from its executable
polaris_ioxman_exec_read(polaris_caf_t)

polaris_ioxman_show_version(polaris_caf_t)

type polaris_iox_alt_hdd_files_t;
files_type(polaris_iox_alt_hdd_files_t)
polaris_pfile_type(polaris_iox_alt_hdd_files_t)
polaris_iox_alt_hdd_manage(polaris_caf_t)

# On stargazer platform /vol/disk0 is used by iox to create below dirs.
# On nyquist platform /vol/usb1 with polaris_disk_harddisk_t is used
# Transition them to appropriate labels.
gen_require(’
    type container_var_lib_t;
’)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_caf_tmp_files_t, dir, "caf")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t polaris_iox_files_t }, container_var_lib_t, dir, "docker")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox_data_share")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t, dir, "iox_host_data_share")

# Allow files under guest-share directory which is shared between ios
# and container
type polaris_iox_shared_files_t;
files_type(polaris_iox_shared_files_t)
polaris_pfile_type(polaris_iox_shared_files_t)
manage_dirs_pattern(polaris_caf_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_alt_hdd_files_t }, polaris_iox_shared_files_t, dir, "guest-share")
# Allow signature verification of applications

```c
gen_require('  
    type polaris_code_verify_t;
')
polaris_iox_files_manage(polaris_code_verify_t)
```

# allow caf to control /tmp/trace/resource.log

```c
polaris_iox_manage_tmp_files(polaris_caf_t)
```

# some utility running under caf needs access to /varied/ovf-env.xml

```c
polaris_disk_varied_read(polaris_caf_t)
```

# caf reads the udev information

```c
gen_require('  
    type udev_var_run_t;
')
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)
```

```c
gen_require('  
    type virtd_lxc_t;
')
allow polaris_caf_t virtd_lxc_t:process signull;
```

```c
polaris_removable_manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)
```

# caf modifies /etc/cgroup_params.txt

```c
files_manage_etc_files(polaris_caf_t)
```

# read /tmp/iox_override.conf created by ioxman

```c
polaris_iox_read_tmp_files(polaris_caf_t)
```

# python udev library used by caf

```c
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattr setopt }
```

# need access to rawip socket by pd_iox.sh

```c
allow polaris_caf_t self:capability { net_raw setgid }
```

```c
allow polaris_caf_t self:rawip_socket { create getopt setopt }
```

# LOOK AT ME caf leaks fifo file descriptors need permissions for
domains that started by it

```c
gen_require('  
    type iptables_t;
')
allow iptables_t polaris_caf_t:fifo_file { read write append getattr }
```

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh

```c
allow iptables_t self:cap_users { net_admin net_raw }
```
container_stream_connect(polaris_caf_t)

gen_require('  
   type pki_ca_port_t;
')
allow polaris_caf_t pki_ca_port_t:tcp_socket name_connect;

polaris_flashlib_read(polaris_caf_t)
polaris_flashlib_write(polaris_caf_t)
polaris_contdev_dev_read(polaris_caf_t)

gen_require('  
   type rsync_exec_t;
   type rsync_port_t;
')
allow polaris_caf_t rsync_exec_t:file { execute execute_no_trans getattr map open read }
allow polaris_caf_t rsync_port_t:tcp_socket name_connect;

# IOX uses rsync to sync the data
gen_require('  
   type rsync_t;
')
rsync_entry_domtrans(polaris_caf_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_caf_t)
allow rsync_t polaris_caf_t:fifo_file { getattr write }

kernel_search_network_sysctl(polaris_caf_t)
kernl_rw_net_sysctls(polaris_caf_t)
dev_rw_sysfs(polaris_caf_t)

# Allow run-caf.sh to configure byte_queue_limits/limit_min for KR port
gen_require('  
   type sysfs_t;
')
allow polaris_caf_t sysfs_t:file create;
dev_manage_sysfs_dirs(polaris_caf_t)

# CAF needs access to setup for containers
manage_dirs_pattern(polaris_caf_t, self, self)
fs_associate_proc(polaris_caf_t)

# guestshell_setup.sh reads /proc/sys/kernel/core_pattern
kernel_read_usermodehelper_state(polaris_caf_t)
# and then guestshell_setup.sh reads /tmp/corelink
gen_require('  
   type initrc_tmp_t;
')
allow polaris_caf_t initrc_tmp_t:lnk_file read;
# Beluga/Meraki container
ifdef(`ms_platform',`
polaris_iox_container_domtrans(polaris_caf_t)
')

# Bottlenose/Meraki container
ifdef(`bottlenose_platform',`
polaris_iox_container_domtrans(polaris_caf_t)
')

#allow run_ioxn_caf.sh to modify /etc/docker/daemon.json, etc.
container_manage_config_files(polaris_caf_t)

# Manage IOx Secure storage CC files
type polaris_iox_ss_disk_t;
files_type(polaris_iox_ss_disk_t)
polaris_pfile_type(polaris_iox_ss_disk_t)

#Guestshell management
virt_signnull(polaris_caf_t)

gen_require(`
   type ifconfig_t;
')

# allow ifconfit_t users permissions for IP
allow ifconfig_t self:cap_users { net_admin sys_admin sys_ptrace };  
# allow ifconfig_t to transition into dhcpc domain
sysnet_domtrans_dhcpc(ifconfig_t)

# Being an IOSP client does not allow for setattr permissions
.gen_require(`
   type polaris_iosd_portal_app_lipc_t;
')
ssetattr_sock_files_pattern(polaris_caf_t, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)

ifdef(`passport_platform',`

.gen_require(`
   type polaris_sioxcd_rp_t;
')

# Allow read of /etc/passwd
auth_map_passwd(polaris_sioxcd_rp_t)

# Allow usage of ls in helper script
corecmd_exec_bin(polaris_sioxcd_rp_t)
# Allow sysfs read
dev_list_sysfs(polaris_sioxcd_rp_t)

# Allow create/write/open of files under tmp
type polaris_sioxcd_rp_tmp_t:

files_tmp_file(polaris_sioxcd_rp_tmp_t)
files_tmp_filertrans(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, { dir file } )
manage_dirs_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)
manage_fifo_files_pattern(polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t, polaris_sioxcd_rp_tmp_t)

# Allow losetup in helper script to run in its own domain
fstools_domtrans(polaris_sioxcd_rp_t)
#
## Allow mount/umount in its own domain
mount_domtrans(polaris_sioxcd_rp_t)
#
## Allow /tmp/sw/boot read
polaris_boot_tmp_read(polaris_sioxcd_rp_t)

## Allow /tmp/sw/boot read
fstools_btrace_tmppub_read(polaris_sioxcd_rp_t)

## Allow /sys/devices/platform/cpld/board_vtype read
polaris_cpld_read(polaris_sioxcd_rp_t)

## Allow debug.conf access
polaris_read_debug_conf(polaris_sioxcd_rp_t)

## Allow cats /tmp/sw/boot/rmonbifo/boardsubtype
polaris_rmonbifo_tmp_read(polaris_sioxcd_rp_t)

## Allow console logging
term_open_unallocated_ttys(polaris_sioxcd_rp_t)

## Allow capability 1/24 access
allow polaris_sioxcd_rp_t self:capability { dac_override sys_resource };

## Transition to chvrf domain needed by push_using_rsync
polaris_chvrf_domtrans(polaris_sioxcd_rp_t)
# Allow flashutil
polaris_flashlib_read(polaris_sioxcd_rp_t)

# iptables execute in its own domain
iptables_domtrans(polaris_caf_t)

# logger needs to run pidof
dev_read_sysfs(polaris_sioxcd_rp_t)
kernel_read_system_state(polaris_sioxcd_rp_t)
domain_read_all_domains_state(polaris_sioxcd_rp_t)

# Manage alternate hdd files
polaris_iox_alt_hdd_manage(polaris_sioxcd_rp_t)

# Allow ls /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_sioxcd_rp_t)
')

# Allow logger which is used for syslog messages
allow polaris_sioxcd_rp_t self:unix_dgram_socket { connect create };
logging_send_syslog_msg(polaris_sioxcd_rp_t)

# Allow standby to access /dev/sda3
fs_getattr_xattr_fs(polaris_sioxcd_rp_t)

# Allow getattr under iox_alt_hdd_mount_dir
polaris_iox_alt_hdd_getattr(polaris_sioxcd_rp_t)
'

# Allow sync_data to use chvrf
polaris_chvrf_domtrans(polaris_caf_t)

# tty device and link files under /dev
type polaris_caf_tty_file_t;
dev_node(polaris_caf_tty_file_t)
dev_filetrans(polaris_caf_t, polaris_caf_tty_file_t, lnk_file)
term_use_ptmx(polaris_caf_t)
polaris_caf_tty_lnk_manage(polaris_caf_t)
polaris_caf_chr_file_read(polaris_caf_t)

polaris_iosd_vcpu_read(polaris_caf_t)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_usefifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)
# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmbonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)

gen_require(`
    type dhcpc_t;
')

# allow these users capabilities for dhcpc
allow dhcpc_t self:cap_users { net_raw net_bind_service };

# allow CAF to transition to dhcpc e.g. dhclient_custom.sh
sysnet_domtrans_dhcpc(polaris_caf_t)

# allow reading of dhcp configuration files e.g.
# /vol/usb1/iox/repo-docker/perfsonar1/dhcp/dhcp_eth0.conf
polaris_caf_files_read(dhcpc_t)

# allow writing of dhcp lease files e.g. eth0ipv4.lease
polaris_iox_files_manage(dhcpc_t)

# allow dhcp domain to transition back into CAF e.g. dhclient_custom.sh
polaris_caf_domtrans(dhcpc_t)

# Allow read container share files
container_read_share_files(polaris_caf_t)

# Allow manage container files

    type container_share_t;
    type container_log_t;
')

mmap_files_pattern(polaris_caf_t, container_file_t, container_file_t)
manage_files_pattern(polaris_caf_t, container_file_t, container_file_t)

manage_chr_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_fifo_files_pattern(polaris_caf_t, container_share_t, container_share_t)
manage_sock_files_pattern(polaris_caf_t, container_share_t, container_share_t)

manage_files_pattern(polaris_caf_t, container_log_t, container_log_t)

# Allow polaris caf to set attributes of device nodes of fuse devices

    type fuse_device_t;
')
allow polaris_caf_t fuse_device_t:chr_file setattr;

# Allow polaris caf to set attributes of TUN/TAP virtual network device

type tun_tap_device_t;
}
allow polaris_caf_t tun_tap_device_t:chr_file setattr;

# Allow operations on fifo file
type fifo_var_run_t;
# make sure /tmp/ttyF0 is labeled correctly
files_tmp_file(fifo_var_run_t)
files_tmp_filetrans(polaris_caf_t, fifo_var_run_t, fifo_file)
manage_fifo_files_pattern(polaris_caf_t, fifo_var_run_t, fifo_var_run_t)

# allow udev read operations
polaris_udev_temp_read(polaris_caf_t)

# allow link file for tmpfs_t
allow polaris_caf_t tmpfs_t:lnk_file create;

############################
# IOx Secure storage service policies
############################
optional_policy(

gen_require(
    type polaris_ioxss_rp_t;
    type polaris_sort_files_t;
    type polaris_iosd_t;

    )
    type polaris_ioxss_rp_tmp_t;
files_tmp_file(polaris_ioxss_rp_tmp_t)
files_tmp_filetrans(polaris_ioxss_rp_t, polaris_ioxss_rp_tmp_t, file, "ioxss_up")
polaris_ioxss_rp_tmp_manage(polaris_ioxss_rp_t)
polaris_chasfs_read(polaris_ioxss_rp_t)
polaris_lua_read(polaris_ioxss_rp_t)

manage_files_pattern(polaris_ioxss_rp_t, polaris_iox_ss_disk_t, polaris_iox_ss_disk_t)
allow polaris_sort_files_t polaris_iox_ss_disk_t:dir list_dir_perms;
allow polaris_iosd_t polaris_iox_ss_disk_t:dir list_dir_perms;

# Allow polaris_sort_files_t getattr of iosd_portal_app_lipc socket file
polaris_iosd_portal_app_lipc_getattr(polaris_sort_files_t)

# allow secure storage server to connect through tcp_socket on port 9000 from system-config.ini

gen_require(
    type http_port_t;
    )

allow polaris_ioxss_rp_t self:tcp_socket { bind create listen setopt };
corennet_tcp_bind_http_port(polaris_ioxss_rp_t);
allow polaris_ioxss_rp_t node_t:tcp_socket node_bind;

# allow polaris caf to process signal of dhcpc client
allow polaris_caf_t dhcpc_t:process signal;

# allow secure storage server to connect through socket
allow polaris_ioxss_rp_t self:socket create_socket_perms;

optional_policy(
  # Allow polaris_sort_files_t getattr of container fifo file
  gen_require(
    type polaris_sort_files_t;
    type container_file_t;
  )
  getattr_fifo_files_pattern(polaris_sort_files_t, container_file_t, container_file_t)
)

# Clear iox handling
container_manage_lib_files(polaris_caf_t)
container_manage_lib_dirs(polaris_caf_t)
container_manage_share_files(polaris_caf_t)
container_manage_share_dirs(polaris_caf_t)

gen_require(
  type polaris_vs_oper_db_tdlldb_t;
  type polaris_tdlldb_t;
)
manage_files_pattern(polaris_caf_t, polaris_tdlldb_t, polaris_vs_oper_db_tdlldb_t)

# allow caf to read systemd unit files
systemd_read_unit_files(polaris_caf_t)

# allow restorecon on iox_alt_hdd_mount_dir
seutil_domtrans_setfiles(polaris_caf_t)

filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, file, "iox_alt_hdd.dsk")
filetrans_pattern(polaris_caf_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_iox_alt_hdd_files_t, dir, "iox_alt_hdd_mount_dir")

allow ifconfig_t polaris_iox_files_t:file { read }

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.te
No license file was found, but licenses were detected in source scan.

#
# May 2017, Victor Kamensky
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#

## <summary>Polaris confd Policy Rules.</summary>

### <summary>
##      Setup /dev/shm/confd directory and file, pid and shared memory.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>

interface(`polaris_confd_shm_setup',`
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  fs_tmpfs_filetrans($1, polaris_confd_shm_t, dir, "confd")
  manage_dirs_pattern($1, tmpfs_t, polaris_confd_shm_t)
  manage_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
  allow $1 polaris_confd_shm_t:file map;
')

### <summary>
##      Read /dev/shm/confd_shared_schema shared memory.
## </summary>
## <param name="domain">
##      Domain allowed access.
## </param>

interface(`polaris_confd_shared_schema_read',`
  gen_require(
    type polaris_confd_shm_t;
    type tmpfs_t;
  )
  read_files_pattern($1, { tmpfs_t polaris_confd_shm_t }, polaris_confd_shm_t)
  allow $1 polaris_confd_shm_t:file map;
')
### <summary>
### Watch confd_shm directories
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
# interface('polaris_confd_shared_schema_watch',
  gen_require(
    type polaris_confd_shm_t;
  )
  allow $1 polaris_confd_shm_t:dir watch;
')

### <summary>
### Read /proc/cond_pid/exe file. Few dmi utilties do that by
### some reason. Look at handle_confd_pid_available.
### Read files and symlinks under /dev/shm/confd.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
# interface('polaris_confd_read',
  gen_require(
    type polaris_confd_t;
  )
  read_files_pattern($1, polaris_confd_t, polaris_confd_t)
  read_lnk_files_pattern($1, polaris_confd_t, polaris_confd_t)
')

### <summary>
### Create /var/log/ndbutil directory
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
```c

# interface('polaris_confnd_ndbutil_create',
        gen_require(
            type polaris_confnd_ndbutil_lock_t;
        )
        files_lock_filetrans($1, polaris_confnd_ndbutil_lock_t, dir, "ndbutil")
        files_create_lock_dirs($1)
        manage_dirs_pattern($1, polaris_confnd_ndbutil_lock_t, polaris_confnd_ndbutil_lock_t)
        manage_files_pattern($1, polaris_confnd_ndbutil_lock_t, polaris_confnd_ndbutil_lock_t)
        create_dirs_pattern($1, polaris_confnd_ndbutil_lock_t, polaris_confnd_ndbutil_lock_t)
        )

####################################################
## <summary>
## Creates types for and rules for ndbutils files under /var/lock/ndbutil
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
## <param name="stem">
##   <summary>
##   Stem for the domain. Name is constructed as polaris_stem_ndbutil_t
##   </summary>
## </param>
## <param name="name" optional="true">
##   <summary>
##   The name of the object being created.
##   </summary>
## </param>
#
# template('polaris_ndbutil_lock_template',
        gen_require(
            type polaris_confnd_ndbutil_lock_t;
        )
        type polaris_$2_ndbutil_t;
        files_type(polaris_$2_ndbutil_t)

        filetrans_pattern($1, polaris_confnd_ndbutil_lock_t, polaris_$2_ndbutil_t, file, $3)
        manage_files_pattern($1, polaris_confnd_ndbutil_lock_t, polaris_$2_ndbutil_t)

        allow $1 polaris_$2_ndbutil_t:file { watch watch_reads };
        )

####################################################
## <summary>
## Execute a domain transition to run mmap_schema polaris process.
## </summary>
```

---

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## <summary>
## Domain allowed to transition.
## </summary>

interface(`polaris_mmap_schema_domtrans',`
  gen_require(`
      type polaris_mmap_schema_t, polaris_mmap_schema_exec_t;
  `)

domtrans_pattern($1, polaris_mmap_schema_exec_t, polaris_mmap_schema_t)
`)

#<summary>
# Execute a domain transition to run confd polaris process.
#</summary>

#<param name="domain">
# Domain allowed to transition.
#</param>

interface(`polaris_confd_domtrans',`
  gen_require(`
      type polaris_confd_t, polaris_confd_exec_t;
  `)

domtrans_pattern($1, polaris_confd_exec_t, polaris_confd_t)
`)

#<summary>
# Read confd log file (i.e /var/confd0/log/cia-confd.log). Used
# by dmiaudthd to convert confd logs to btrace.
#</summary>

#<param name="domain">
# Domain allowed access.
#</param>

interface(`polaris_confd_log_read',`
  gen_require(`
      type polaris_confd_var_t;
  `)
read_files_pattern($1, polaris_conf0_var_t, polaris_conf0_var_t)
')

#########################################################################
## <summary>
## Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_conf0_log_manage',
    gen_require(
        type polaris_conf0_var_t;
    )
    manage_files_pattern($1, polaris_conf0_var_t, polaris_conf0_var_t)
')

#########################################################################
## <summary>
## Execute dmi_ports_fetch in the caller domain.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('confd_exec_dmi_ports_fetch',
    gen_require(
        type polaris_dmi_ports_fetch_exec_t;
    )
    corecmd_search_bin($1)
can_exec($1, polaris_dmi_ports_fetch_exec_t)
')

#########################################################################
## <summary>
## Manage confd /var/log files (i.e /var/log/confd)
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>

# interface('polaris_confd_var_log_manage',
        gen_require(
            type polaris_confd_var_log_t;
        )
        logging_log_filetrans($1, polaris_confd_var_log_t, dir, "confd")
        manage_dirs_pattern($1, var_log_t, polaris_confd_var_log_t)
        manage_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
    ')

#######################################
## <summary>
##      Read confd /var/log files (i.e /var/log/confd)
##      /bootflash/tracelogs/cia-netconf-trace* also has polaris_confd_var_log_t
## </summary>
## <param name="domain">
## <summary>
##      Domain allowed access.
## </summary>
## </param>

# interface('polaris_confd_var_log_read',
        gen_require(
            type polaris_confd_var_log_t;
        )
        list_dirs_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
        read_files_pattern($1, polaris_confd_var_log_t, polaris_confd_var_log_t)
    ')

########################################
## <summary>
##	Write into fifo file created by confd, typical case when 
##      confd starts script under popen in different domain.
## </summary>
## <param name="domain">
## <summary>
##	Domain allowed access.
## </summary>
## </param>
## <rolecap/>

# interface('polaris_confd_tmp_use_fifo',
        gen_require(
            type polaris_confd_tmp_t;
        )
        read_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
write_fifo_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

##############################################################################
## <summary>
## Write into file created by confd, to deal with cases
## confd starts script under popen in different domain and
## file descriptor leaks into another domain. Since we cannot
## modify confd to use O_CLOEXEC
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_confd_tmp_use',
    gen_require(
        type polaris_confd_tmp_t;
    ')
)

read_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
write_files_pattern($1, polaris_confd_tmp_t, polaris_confd_tmp_t)
')

##############################################################################
## <summary>
## Provide access for file operations under /etc/ dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_etc_read',
    gen_require(
        type polaris_confd_etc_t;
    ')
)

read_files_pattern($1, polaris_confd_etc_t, polaris_confd_etc_t)
')

##############################################################################
## Create an object in the /var directory under
## polaris_confd_var_t label.

## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="object">
## <summary>
## The object class of the object being created.
## </summary>
## </param>
## <param name="name" optional="true">
## <summary>
## The name of the object being created.
## </summary>
## </param>

interface(‘polaris_confd_var_filetrans’,
    gen_require(‘
      type polaris_confd_var_t;
    ‘)
)
files_var_filetrans($1, polaris_confd_var_t, $2, $3)
‘)

########################################
## <summary>
## Make the specified domain able to work with /var/confd0
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>

interface(‘polaris_confd_var_dir_manage’,
    gen_require(‘
      type polaris_confd_var_t;
    ‘)
)
manage_dirs_pattern($1, polaris_confd_var_t, polaris_confd_var_t);
‘)

########################################
## <summary>
## Execute a domain transition to run admin_tech scripts of sdwan
## </summary>
## <param name="domain">

---

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### <summary>
### Domain allowed to transition.
### </summary>
### </param>

```
interface('polaris_admin_tech_domtrans',
    gen_require('polaris_admin_tech_t, polaris_admin_tech_exec_t;
    ')
    domtrans_pattern($1, polaris_admin_tech_exec_t, polaris_admin_tech_t)
')

```

###################################################################
### <summary>
### Read admin_tech files created under bootflash
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_admin_tech_data_read',
    gen_require('polaris_admin_tech_data_t;
    ')
    read_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
')

```

###################################################################
### <summary>
### Manage admin_tech files created under bootflash
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

```
interface('polaris_admin_tech_data_manage',
    gen_require('polaris_admin_tech_data_t;
    ')
    manage_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_link_files_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
    manage_dirs_pattern($1, polaris_admin_tech_data_t, polaris_admin_tech_data_t)
```
allow $1 polaris_admin_t:file watch;

')

#######################################
## <summary>
## Allow domain to be started by confd with
## transition into specific service domain.
## </summary>
## <param name="domain">
## Type to be used to run utility.
## </param>
## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>
interface(`polaris_confd_domain',
        gen_require(`
            type polaris_confd_t;
        ')
)
domtrans_pattern(polaris_confd_t, $2, $1)
'

#######################################
## <summary>
## Manage confd_cli files under /tmp/confd_cli.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_confd_cli_tmp_manage',
        gen_require(`
            type polaris_confd_cli_tmp_t;
        ')
        manage_files_pattern($1, polaris_confd_cli_tmp_t, polaris_confd_cli_tmp_t)
')

#######################################
## <summary>
## Manage vconfd files under /tmp/vconfd.
## </summary>
## <param name="domain">

## <summary>
## Domain allowed access.
## </summary>

```python
interface('polaris_vconfd_tmp_manage',
    gen_require(
        type polaris_vconfd_tmp_t;
    )
    manage_dirs_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
    manage_files_pattern($1, polaris_vconfd_tmp_t, polaris_vconfd_tmp_t)
)
```

#######################################

## <summary>
## Connect to confd port. Should be used only by utility domains that do not have TDL entry. Processes with TDL entries just need to register as confd pseudo service clients.
## </summary>

```python
interface('polaris_confd_connect',
    polaris_ripc_confd_ipc_connect($1)
)
```

#######################################

## <summary>
## Use unix stream socket created by confd as standard I/O descriptors. Need to look more, because so far it triggers onlygetattr, append and ioctl permissions. If it would be real standard I/O it would need read and write as well.
## </summary>

```python
interface('polaris_confd_unix_stream_stdio_use',
    gen_require(
        type polaris_confd_t;
    )
    allow $1 polaris_confd_t:unix_stream_socket { append getattr ioctl);
)
```

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## <summary>
## Creates types and rules for a script that is started
## by confd process.
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </param>
#
# template('polaris_vconfd_domain_template',
    polaris_utility_domain_template($1)

    polaris_confd_domain(polaris_$1_t, polaris_$1_exec_t)

    # access /etc/passwd
    auth_use_nsswitch(polaris_$1_t)

    # inherit unix stream as script stdio
    polaris_confd_unix_stream_stdio_use(polaris_$1_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.if
No license file was found, but licenses were detected in source scan.

dnl
dnl April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
dnl divert(-1)

dnl include('polaris_process.m4')

dnl include('polaris_database_db.m4')
dnl include('polaris_database_db_fc.m4')

dnl include('polaris_max_scope.m4')

dnl divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
Policy module (polarisinstallmgr, 1.0):

generate(`
    type polaris_install_mgr_t;
')
polaris_chasfs_manage(polaris_install_mgr_t)
polaris_tdlresolve_read(polaris_install_mgr_t)
polaris_cpld_read(polaris_install_mgr_t)
polaris_flashlib_read(polaris_install_mgr_t)
polaris_lua_read(polaris_install_mgr_t)

logging_send_syslog_msg(polaris_install_mgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_install_mgr_t)
polaris_db_tdlldb_dir_use(polaris_install_mgr_t)

# Read all files in persistent storage
polaris_persistent_read(polaris_install_mgr_t)

# Calls code verify
polaris_code_verify_domtrans(polaris_install_mgr_t)
# Calls mount command
mount_domtrans(polaris_install_mgr_t)

# Allow access to gnmib image files
optional_policy(`
polaris_gnmib_gnoi_images_read(polaris_install_mgr_t)
')

# LOOK AT ME: /dev/mem access restriction will be removed after
# CSCvu32649 is fixed using CSCvu32742.
# code_sign_verify accesses /dev/mem: class=chr_file, {read, open, map}
# to read the codesign key in storage
# Side effects: execute is also allowed
gen_require(
    type polaris_code_verify_t;
    type polaris_nvram_file_t;
  )
dev_rx_raw_memory(polaris_code_verify_t)

# read access to /bootflash/nvram_config on CLI "install remove inactivate"
read_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)
getattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and get attr access of capsule-upgrade.log file
polaris_capsule_upgrade_log_use(polaris_code_verify_t)

# calls install_mgr_helper_api.sh
corecmd_exec_bin(polaris_install_mgr_t)
corecmd_exec_shell(polaris_install_mgr_t)
auth_use_nsswitch(polaris_install_mgr_t)

# /tmp/sw/inst_tmp_x handling
type polaris_install_mgr_tmp_t;
files_tmp_file(polaris_install_mgr_tmp_t)
gen_require(
    type tmp_t;
  )
manage_dirs_pattern(polaris_install_mgr_t, tmp_t, polaris_install_mgr_tmp_t)
manage_dirs_pattern(polaris_install_mgr_t, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_1")
files_tmp_filetrans(polaris_install_mgr_t, polaris_install_mgr_tmp_t, dir, "inst_tmp_2")

# writes into /bootflash/installer/watchlist
polaris_disk_install_manage(polaris_install_mgr_t)

# install_mgr_monitor.c:add_prior_watches
polaris_persistent_watch(polaris_install_mgr_t)

# watch over /tmp/patch
polaris_patch_data_watch(polaris_install_mgr_t)

polaris_repm_peer_mqipc_manage(polaris_install_mgr_t)

# watches over /tmp for /tmp/booted appearence in
# init_operation_mgmt_watches function
gen_require(
    type tmp_t;
  )
allow polaris_install_mgr_t tmp_t:dir watch;
allow polaris_install_mgr_t self:capability sys_resource;
#install_mgr writes into /bootflash/installer/watchlist and watches /bootflash/inot_fifo
polaris_install_disk_manage(polaris_install_mgr_t)

#install_mgr does search and get attribute operation on /tftp directory
gen_require('  
    type tftpdir_rw_t;
')
allow polaris_install_mgr_t tftpdir_rw_t:dir { getattr search };

# allow read access to iso9600
fs_read_iso9660_files(polaris_install_mgr_t)

# accesses /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_install_mgr_t)

# creates files under /tmp/pkg_cs_debug through install_helper
# and verify_pkg shell function from common
polaris_pkg_cs_debug Manage(polaris_install_mgr_t)

# for pluggable FS, allow the install manager to access files on them (it needs read and
# write access).
gen_require('  
    type removable_t;
')
allow polaris_install_mgr_t removable_t:dir { getattr open read search watch };
allow polaris_install_mgr_t removable_t:file { getattr open read };
allow polaris_install_mgr_t removable_t:link_file read;

# allow install_mgr to stat caf files in /vol/harddisk/caf, /bootflash/caf, etc.
polaris_caf_tmp_files_read(polaris_install_mgr_t)

# install manager Cleanup related to inotify watches, Basically frees malloced memory
gen_require('  
    type root_t;
')
allow polaris_install_mgr_t root_t:dir watch;

# install manager access to /guestshell
polaris_guestshell_files_read(polaris_install_mgr_t)

# install manager access to /lib/systemd/systemd
polaris_init_access_check(polaris_install_mgr_t)

# install manager reads dcmlog.txt
optional_policy('  
    gen_require('  
        type polaris_fed_debug_dcmlog_t;
read_files_pattern(polaris_install_mgr_t, polaris_fed_debug_dcmlog_t, polaris_fed_debug_dcmlog_t)
)

# install manager reads /firmware
polaris_firmware_read(polaris_install_mgr_t)

# install manager reads /guestshell
gen_require(''
    type polaris_guestshell_t;
')
getattr_dirs_pattern(polaris_install_mgr_t, polaris_guestshell_t, polaris_guestshell_t)

# install_manager reads /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_read(polaris_install_mgr_t)

# install_manager writes /tmp/sw/boot during auto_upgrade
polaris_boot_tmp_write(polaris_install_mgr_t)

# install_manager reads /tmp/sw/boot/rmonbifo during auto_upgrade
polaris_rmonbifo_tmp_read(polaris_install_mgr_t)

# install_manager reads /tmp/tmppub during auto_upgrade
polaris_btrace_tmppub_read(polaris_install_mgr_t)

# install manager accesses /tmp/rsync_log_dir during auto_upgrade
polaris_manage_rsync_tmplog_dir(polaris_install_mgr_t)

# install manager invokes mcp_chvrf.sh for rsync operations during auto_upgrade
polaris_chvrf_domtrans(polaris_install_mgr_t)

polaris_bexecute_domtrans(polaris_install_mgr_t)

ifdef(`ngwc_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

ifdef(`mcp_family',`
# install_mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')
ifdef(`wlc_family',`

# install mgr needs to be able to execute the auto_upgrade_client_helper scripts
polaris_autoupgrade_domtrans(polaris_install_mgr_t)

# read /tmp/etc/installer
polaris_autoupgrade_tmp_manage(polaris_install_mgr_t)
')

# with "/bootflash"...this needs read and attr to access for logfile
polaris_read_user_file(polaris_install_mgr_t)
polaris_user_file_getattr(polaris_install_mgr_t)

# auto upgrade server bind operation when install manager initialize auto upgrade server
corennet_tcp_bind_polaris_autoupgrade_port(polaris_install_mgr_t)

# access to /tmp/etc
polaris_etc_list(polaris_install_mgr_t)

# read access to /tmp/etc/installer
polaris_install_tmp_read(polaris_install_mgr_t)
polaris_script_errmsg_use(polaris_install_mgr_t)

# install mgr calls install_abort.sh on rollback timer expiry
polaris_install_engine_domtrans(polaris_install_mgr_t)

# /tmp/ufs/crashinfo access
optional_policy(`
polaris_ncd_tmp_read(polaris_install_mgr_t)
')

# read/write to /bootflash/.rollback_timer/install_abort_time
polaris_rbtimer_bootflash_manage(polaris_install_mgr_t)

allow polaris_install_mgr_t self:process setpgid;

optional_policy(`
    polaris_efi_files_list_dirs(polaris_install_mgr_t)
')

# walk all files on "install issu activate" and "install remove inactivate" CLI
files_read_all_files(polaris_install_mgr_t)

# install mgr file descriptor leaks into mcp_chvrf.sh for rsync operation
gen_require(`
    type polaris_chvrf_t;
')
allow polaris_chvrf_t polaris_install_mgr_t:file read;
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.te

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

#
# May 2017, Victor Kamensky
#
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#

policy_module(polarisconfd, 1.0);

gen_require(`
   type polaris_confd_t;
`)

# confd-startup.sh calls confd_cmd to get_phase and other cases
# that utilities under confd label connects to confd
polaris_ripc_confd_ipc_connect(polaris_confd_t)

#confd needs communicate over HTTP
corenets_tcp_bind_http_port(polaris_confd_t)

# commplex_main (port 5000) is used by apache
corenets_udp_bind_commplex_main_port(polaris_confd_t)

corenets_tcp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

corenets_udp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:udp_socket { bind connect create getattr getopt setopt };
corenets_udp_bind_polaris_confd_snmp_traps_port(polaris_confd_t)

logging_send_syslog_msg(polaris_confd_t)

polaris_chasfs_manage(polaris_confd_t)
polaris_btrace_data_manage(polaris_confd_t)
polaris_cpld_read(polaris_confd_t)
polaris_boot_tmp_read(polaris_confd_t)
polaris_rmonbifo_tmp_read(polaris_confd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_confd_t)

# confd-startup.sh process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_confd_t)
corecmd_exec_bin(polaris_confd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_confd_t)

# confdexec needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_confd_t)

allow polaris_confd_t self:capability { net_admin sys_resource };

# allow read permissions for /etc/hosts file
sysnet_read_config(polaris_confd_t)

# allow read permissions for /var/run/netsns/8
fs_read_nsfs_files(polaris_confd_t)

# work with /var/confd0/ files
type polaris_confd_var_t;
files_tmp_file(polaris_confd_var_t)
polaris_confd_var_filetrans(polaris_confd_t, dir, "confd0")
manage_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_lnk_files_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)
manage_dirs_pattern(polaris_confd_t, polaris_confd_var_t, polaris_confd_var_t)

# erlang calls efile_fileinfo function (./erts/emulator/drivers/unix/unix_efile.c)
# root directory. Inside of the function code calls 'access' function that check
# access permission for R_OK and W_OK. W_OK triggers denial warning. Instead of
# granting access let's mark it as dontaudit. Erlang will be fine with this
files_dontaudit_write_root_dirs(polaris_confd_t)

# deals with /dev/shm/confd files (shared memory and pid)
type polaris_confd_shm_t;
files_tmpfs_file(polaris_confd_shm_t)

# confd-startup.sh modifies confd.conf which is under polaris_confd_var_t label
# sed -i /CONFDF_FXS_CISCO_AUTOGEN_EWLC/d /var/confd0/confd.conf
allow polaris_confd_t self:process setfscreate;

type polaris_confd_ndbutil_lock_t;
files_lock_file(polaris_confd_ndbutil_lock_t)

# confd mmap_schema utility runs from systemd unit under polaris_confd_t label
polaris_confd_shm_setup(polaris_confd_t)
# create ndbutil directory under /var/lock
polaris_confd_ndbutil_create(polaris_confd_t)
# Allow access to /crashinfo
polaris_disk_crashinfo_getattr(polaris_confd_t)

optional_policy(
    # confd-startup.sh on nyquist makes ls /tmp/ufs/crashinfo
    polaris_ncd_tmp_read(polaris_confd_t)
    )

# confd-startup.sh reads /proc/cmdline
kernel_read_system_state(polaris_confd_t)

# LOOK AT ME allow mapping of low addresses, that could be exploited
# need to understand why; unfortunately confd symbols are not decodable
# need to ask tail-f guys
ifdef('tsn_platform',
    domain_mmap_low_uncond(polaris_confd_t)
    gen_require(
        type polaris_confd_cli_t;
    )
    domain_mmap_low_uncond(polaris_confd_cli_t)
    )
ifdef('quake_platform',
    domain_mmap_low_uncond(polaris_confd_t)
    )
polaris_mmap_schema_domtrans(polaris_confd_t)

# mmap_schema process policy
gen_require(
    type polaris_mmap_schema_t;
    )
polaris_btrace_data_manage(polaris_mmap_schema_t)
polaris_chasfs_read(polaris_mmap_schema_t)
polaris_cpld_read(polaris_mmap_schema_t)
polaris_flashlib_read(polaris_mmap_schema_t)
polaris_db_tdldb_dir_use(polaris_mmap_schema_t)
polaris_confd_ndbutil_create(polaris_mmap_schema_t)
polaris_confd_shm_setup(polaris_mmap_schema_t)

# connects to confg mmap_schema is not TDL process, let
# grant explicit permission to access corresponding port
polaris_ripc_confd_ipc_connect(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:tcp_socket { connect create setopt };
polaris_socketat_nsfs_read(polaris_mmap_schema_t)
allow polaris_mmap_schema_t self:capability dac_override;

polaris_tdlresolve_read(polaris_mmap_schema_t)
polaris_confd_read(polaris_mmap_schema_t)
polaris_ndbmand_ndbutil_manage(polaris_mmap_schema_t)
optional_policy(
polaris_gnmib_ndbutil_lock(polaris_mmap_schema_t, ".l.schema_use.gnmib")
)

type polaris_confd_tmp_t;
files_tmp_file(polaris_confd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_confd_tmp_t, dir, ".confd")
files_tmp_filetrans(polaris_confd_tmp_t, polaris_confd_tmp_t, dir, ".confd")
manage_files_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)
manage_fifo_files_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_confd_tmp_t, tmp_t, polaris_confd_tmp_t)

# posix_pathconf called from get_tmpdir calls starvfs over /tmp
fs_getattr_tmpfs(polaris_confd_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
confd_exec_dmi_ports_fetch(polaris_confd_t)

# confd-startup script reads /tmp/dmi.ds_config if it exists
polaris_psd_tmp_read(polaris_confd_t)

# vip-confd-startup.sh related
# figure out BOOT_ROLE in install_util.sh
polaris_read_packages_conf(polaris_confd_t)
# touch /bootflash/swan/day0_oper.xml
allow polaris_confd_t self:capability dac_override;
polaris_bootflash_manage(polaris_confd_t)
# /usr/bin/sw syncdb call uuidgen
dev_read_rand(polaris_confd_t)
polaris_dmiauthd_tmp_manage(polaris_confd_t)

# PLEASE LOOK AT ME: overloaded use of /bootflash/.installer and
# /bootflash/.sdwainstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwainstallerfs file onto /bootflash/.sdwainstaller and
# creates /bootflash/.installer symbolic link to it. As result effective
# /bootflash/.installer carries two meaning: used by polaris install infra for
# regular install operations, and keep persistent state in controller mode. For
# now /bootflash/.sdwainstallerfs was forced to be mounted with
# polaris_disk_install_t label, so installer policy would be happy, but confd
# writes into it through /var/confd0 which is symbolic link to
# /bootflash/installer/images/pkg_boot_17.3.01/confd0 that means we need to
# grant polaris_disk_install_manage to confd which is not good thing.
# It would be much better if two different directories would be used.
polaris_disk_install_manage(polaris_confd_t)

# /var/log/confd handling
type polaris_confd_var_log_t;
logging_log_file(polaris_confd_var_log_t)
polaris_confd_var_log_manage(polaris_confd_t)

# /etc/version handling
type polaris_confd_etc_t;
files_config_file(polaris_confd_etc_t)
files_etc_filetrans(polaris_confd_t, polaris_confd_etc_t, file, "version")
gen_require(
    type etc_t;
    )
manage_files_pattern(polaris_confd_t, etc_t, polaris_confd_etc_t)

# "/usr/bin/sw synccdb" calls "confd_cmd -p 3010 -o -c "delete /software"
# that invokes /usr/binos/conf/install_assist.sh
polaris_install_engine_domtrans(polaris_confd_t)

# confd calls /usr/bin/sw that creates temp files in /tmp/cedge_sw_log
# since it runs under same domain make sure that cedge_sw_log gets
# right label
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, dir, "cedge_sw_log")

# /tmp/confd_booted created by vip-confd-start
files_tmp_filetrans(polaris_confd_t, polaris_confd_tmp_t, file, "cedge_booted")

# runs flashutils to read rommon variables
polaris_flashlib_read(polaris_confd_t)

allow polaris_confd_t self:capability fowner;

optional_policy(
# work with /tmp/econfd2sysmgr-ipc
polaris_econfd2sysmgr_tmp_manage(polaris_confd_t)
)

# confdexec calls dmidecode to get bios-vendor
dmidecode_domtrans(polaris_confd_t)

optional_policy(
# polaris_sw.sh called in confd context accesses
# /etc/viptela/controller_version
polaris_cedge etc manage(polaris_confTd_t)
}

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle
# through TDL pseudo services, that one it not
corenets tcp connect polaris_confTd_mapi port(polaris_confTd_t)

# confd starts cmdptywrapper utility through erl_child_setup
# that allocates free pty device using operations on /dev/ptms
allow polaris_confTd_t self:capability { fsetid setgid ];
term_getattr_pty_fs(polaris_confTd_t)
term_setattr generic_pty(polaris_confTd_t)
term_use generic_pty(polaris_confTd_t)
term_use ptmx(polaris_confTd_t)

# uses nice utility to start misc scripts
allow polaris_confTd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain
polaris_ncsshd_mgmt_dmttrans(polaris_confTd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confTd_t)

# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corenets tcp connect all ports(polaris_confTd_t)
# by default the port is selected by system, and it is configurable by users
corenets tcp bind generic port(polaris_confTd_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns manage(polaris_confTd_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confTd_t self:capability setuid;

# label for /tmp/vconfd temporary files created by binos/viptela/vconfd/*.sh
# scripts created from viptela/vconfd/vconfd_script_cli_session.sh
type polaris_vconfd_tmp_t;
files tmp_file(polaris_vconfd_tmp_t)
# confd writes /tmp/vconfd/USID.XXX and /tmp/vconfd/THANDLE.YYY files
polaris_vconfd_tmp manage(polaris_confTd_t)

# label for /tmp/confd_cli temporary files created by execute_confd_cli.sh
# type polaris_confTd_cli_tmp_t;
files tmp_file(polaris_confTd_cli_tmp_t)

# execute_confd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_confld_t polaris_confld_cli_t}, polaris_confld_cli_tmp_t, dir, "confd_cli")

# execute_confd_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(polaris_confld_cli_t, polaris_confld_cli_exec_t)

polaris_chasfs_read(polaris_confld_cli_t)
corecmd_exec_shell(polaris_confld_cli_t)
corecmd_exec_bin(polaris_confld_cli_t)
auth_use_nsswitch(polaris_confld_cli_t)
# bash get_tmpdir statfs /tmp directory
fs_getattr_tmpfs(polaris_confld_cli_t)

polaris_confld_cli_tmp_manage(polaris_confld_cli_t)
polaris_vconfd_tmp_manage(polaris_confld_cli_t)
telnet_use_ptys(polaris_confld_cli_t)

polaris_rpic_confd_ipc_connect(polaris_confld_cli_t)

# execute_confd_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/init_stage
polaris_bootflash_read(polaris_confld_cli_t)

# execute_confd_cli.sh writes to "pipe:[24719894]"
polaris_dmi_nccshd_fwd_use_fifo(polaris_confld_cli_t)
# allow /usr/binos/conf/bexecute.sh for tcp_socket access
# due to "/bin/sh /usr/binos/conf/mcp_chvrf.sh eobe
# /usr/binos/conf/bexecute.sh -c /bin/mcp_pkg_wrap rp_daemons
# /usr/binos/conf/execute_co"
allow polaris_confld_cli_t polaris_dmi_nccshd_fwd_t:tcp_socket ioctl;
#===========================================================================
# admin-tech : scripts in binos/viptela/vconfd/*admin_tech*.sh
# Invocation triggered here:
# viptela/vconfd/viptela-actions.yang: tailf:exec "vconfd_script_admin_tech.sh"
#===========================================================================
polaris_vconfd_domain_template(admin_tech)

#/bin/bash /usr/binos/conf/bshell.sh -S -c
# show platform hardware qfp active infrastructure shared-memory
# process cpp-control-pro.....
polaris_bexecute_domtrans(polaris_admin_tech_t)

# admin-tech launches "ps" via scripts
domain_read_all_domains_state(polaris_admin_tech_t)

# See tracelogs accessed by vconfd_script_polaris_admin_tech_child.sh
polaris_btrace_data_manage_all(polaris_admin_tech_t)

# various utilities like "find", "memaudit", etc needs this
files_getattr_all_files(polaris_admin_tech_t)
files_getattr_all_dirs(polaris_admin_tech_t)
fs_getattr_all_fs(polaris_admin_tech_t)
files_read_all_files(polaris_admin_tech_t)

# '/bin/bash /usr/bin/memaudit' needs access to /proc/kmsg, /proc/mdstat, etc
dev_getattr_mtrr_dev(polaris_admin_tech_t)
kernell_read_all_proc(polaris_admin_tech_t)
dev_getattr_loop_control(polaris_admin_tech_t)

# infra/memaudit/memaudit uses dmesg
dmesg_domtrans(polaris_admin_tech_t)
gen_require('        type dmesg_t;
')
polaris_confd_unix_stream_stdio_use(dmesg_t)

# infra/memaudit/memaudit uses mount
mount_domtrans(polaris_admin_tech_t)

# infra/memaudit/memaudit uses fdisk
fstools_domtrans(polaris_admin_tech_t)
polaris_nvram_read(polaris_admin_tech_t)
polaris_nvram_getattr(polaris_admin_tech_t)

# infra/memaudit/memaudit writes to /proc/sys/vm/drop_caches
kernel_rw_vm_sysctls(polaris_admin_tech_t)

# memaudit and smap needs 'getattr', 'search' on sysctl_irq_t:dir
kernel_read_irq_sysctls(polaris_admin_tech_t)

# du -b -s /tmp/cc /tmp/rp /tmp/fp
files_getattr_all_sockets(polaris_admin_tech_t)
files_getattr_all_pipes(polaris_admin_tech_t)

# df -Th -BM needs access to /run/netns/2
fs_getattr_nsfs_files(polaris_admin_tech_t)

# ls /tmp/ufs/harddisk
# maapi --clicmd --get-io --no-hidden show configuration commit list
corecmd_exec_bin(polaris_admin_tech_t)

# bash vconfd_script_admin_tech.sh -u root -c cli executes:
# 1. map on /etc/passwd
auth_map_passwd(polaris_admin_tech_t)
# 2. hostname
hostname_exec(polaris_admin_tech_t)
# 3. journalctl
journalctl_domtrans(polaris_admin_tech_t)

# journalctl writes to /tmp/vm4-bootuplog-20200903-175223-UTC.log
# see vconfd_script_polaris_admin_tech_child.sh

gen_require(
    type journalctl_t;
)

manage_files_pattern(journalctl_t, polaris_admin_tech_tmp_t, polaris_admin_tech_tmp_t)
polaris_confd_unix_stream_stdio_use(journalctl_t)

# admin_tech reads /tmp/chassis/cpld/chasfs/board_vtype on crankshaft(sdwan)
polaris_chasfs_read(polaris_admin_tech_t)

# find -H /misc/scratch -name MEMORY_LOG_.text
# memaudit writes to /bootflash/MEMORY_LOG_2020-07-28-01:32:11.text
# We also have 'mv -Z /bootflash/admintech /var/tech/ios'
# admin_tech watches /tmp/chassis/local/rp/chasfs/etc/ios_admintech_done

type polaris_admin_tech_data_t;
polaris_disk_type(polaris_admin_tech_data_t)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, dir)
polaris_bootflash_filetrans(polaris_admin_tech_t, polaris_admin_tech_data_t, file)
polaris_admin_tech_data_manage(polaris_admin_tech_t)

# sdwan_tech_support.sh -o /var/tech/binos; work with /var/tech/ files

type polaris_admin_tech_var_t;
files_tmp_file(polaris_admin_tech_var_t)
files_var_filetrans(polaris_admin_tech_t, polaris_admin_tech_var_t, dir, "tech")
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)
manage_dirs_pattern(polaris_admin_tech_t, polaris_admin_tech_var_t, polaris_admin_tech_var_t)

# vconfd_script_polaris_admin_tech.sh invokes vlog "Requested admin-tech initiated."
# vlog is implemented in viptela/utils/vlog using logger; that needs
# - create/connect unix_dgram_socket of type polaris_admin_tech_t
# - read from devtmpfs of type devlog_t
# - write to sock_file of type devlog_t
# - sendto path="/run/systemd/journal/dev-log" of type unix_dgram_socket
logging_send_syslog_msg(polaris_admin_tech_t)

# maapi --cliget paginate: this performs connect to confd socket
polaris_ripc_confd_ipc_connect(polaris_admin_tech_t)

# reads /tmp/chassis/cpld/chasfs/board_vtype
# on c8kv cpld is at /sys/bus/platform/devices/cpld which has sysfs_t LABEL
polaris_cpld_read(polaris_admin_tech_t)

# handle various files created under /tmp

type polaris_admin_tech_tmp_t;
files_tmp_file(polaris_admin_tech_tmp_t)
files_tmp_filetrans(polaris_admin_t_t, polaris_admin_t_t_tmp_t, file)
manage_files_pattern(polaris_admin_t_t, polaris_admin_t_t_tmp_t, polaris_admin_t_t_tmp_t)

# As part of admin-tech generation on cEdges, vconfd_script_polaris_admin_tech.sh
# invokes vconfd_script_polaris_admin_tech_child.sh which in turn invokes the
# script sdwan_tech_support.sh. The sdwan_tech_support.sh passes the file
# /tmp/sdwan_tech_support_command_file_out.txt to a bshell instance. The bshell
# instance does open operation on the file. So bshell needs open allow
# policy for /tmp/sdwan_tech_support_command_file_out.txt
gen_require(
    type polaris_bshell_t;
')
allow polaris_bshell_t polaris_admin_t_t_tmp_t:file open;

# maapi needs this.
allow polaris_admin_t_t self:tcp_socket { getopt setopt create connect read write };

# tar --ignore-failed-read -czf /home/vmanage-admin/vm4-20200903-055157-admin-tech.tar.gz
#       /tmp/fp/trace/cpp_cp_F0-0_TAN.20041_0.20
allow polaris_admin_t_t self:capability dac_override;

# awk /^Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_t_t self:capability sys_ptrace;

# 'top -n1 -b' creates .config dir
# TODO/LOOKATME: selinux team to review handling of this issue in a
# common way for invoking top
allow polaris_admin_t_t root_t:dir create;

# "show installerfs" is invoked by vconfd_script_admin_tech_common.sh
# this invokes vconfd_script_show_installerfs.sh via confd
# let's execute this under install_show domain
polaris_install_show_domtrans(polaris_confd_t)

# create_bootflash_snapshot() performs 'ls -l /bootflash/.installer'
polaris_disk_install_read(polaris_admin_t_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_t_t self:process setfscreate;

# rm -rf $collated_ra   (collated_log_*)

#Nutella-XE - Vedge image install
#/bin/sh /tmp/sw/rp/0/0/rp_security/mount/bin/sw synccdb
#mount -t vfat /dev/mmcblk0gp0p1 /gpp
mount_domtrans(polaris_confd_t)
#df /bootflash
fstools_domtrans(polaris_confd_t)

#Nutella-XE - Vedge image activate
#/usr/binos/bin/flashutil --command unsetvar --name MIG_INT_STATE
polaris_flashlib_write(polaris_confd_t)

# permit comm="ps" to "getattr" on dev="devtmpfs" for polaris_admin_t
term_getattr_unallocated_ttys(polaris_admin_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_t)

# permit to access/unlink /bootflash by polaris_admin_t
polaris_bootflash_manage(polaris_admin_t)

# vconfd_script_admin_tech.sh executes 'top -n1 -b' which creates .config dir
gen_require(`
    type admin_home_t;
    ')
allow polaris_admin_tech_t admin_home_t:dir { add_name create write };

# vconfd_script_admin_tech.sh sources vconfd_script_cli_session.sh and calls
# start_cli_session() which writes to /tmp/vconfd/USID.XXX,
# /tmp/vconfd/THANDLE.YYY and /tmp/vconfd/start_cli.XXXXXXXXXX
polaris_vconfd_tmp_manage(polaris_admin_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_t)

# work with "/tmp/fp/trace/fifo/pvp_sh%f_p_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_t)

# access to tunnel interface from snapshot_cdb()
corenets_rwtun_tap_dev(polaris_confd_t)

# access to /tmp/bootstrap/sdwan/ciscosdwan_cloud_init.cfg
init_read_script_tmp_files(polaris_confd_t)

# "vconfd_notifier security-clear-installed-cert" reads
#/var/run/netns/default which is symlinked to /proc/1/ns/net
polaris_cedge_resetNs(polaris_confd_t)

# allow /usr/binos/conf/execute_confd_cli.sh to access polaris_disk_install_t
polaris_disk_install_read(polaris_confd_cli_t)

# vconfd script ends up cleaning core files, most likely its
# vconfd_script_polaris_admin_tech_child.sh, so it needs read/write
# permission to polaris_core_file_t files.
polaris_core_file_manage(polaris_admin_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.te
No license file was found, but licenses were detected in source scan.

#
# OWNERS - Code Ownership
#
# For information on the purpose and format of this file see:
#
# Copyright (c) 2019-2021 by Cisco Systems, Inc.
# All rights reserved.
#

* @csg/polaris-selinux-dev

#iox team related files
polariscontainer*    @csg/polaris-selinux-dev @csg/iox-selinux
polariscalf*         @csg/polaris-selinux-dev @csg/iox-selinux
polarisgstdp*        @csg/polaris-selinux-dev @csg/iox-selinux
polarisioxman*       @csg/polaris-selinux-dev @csg/iox-selinux
polarisvman*         @csg/polaris-selinux-dev @csg/iox-selinux

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/OWNERS
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

## <summary>Polaris lm Policy Rules.</summary>

#################################################################
## <summary>
## Read files of type polaris_lm_tmp_t (e.g., /tmp/iosd_level)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnmspd.if
No license file was found, but licenses were detected in source scan.

dnl
# April 2018, Victor Kamensky
dnl
dnl Copyright (c) 2018-2019 by Cisco Systems, Inc.
dnl All rights reserved
dnl
define('polaris_database_aux','dnl
########################################
##	Use $2 database.
##	</param>
##	Domain allowed access.
##</summary>
##
## <infoflow type="none"/>
#
interface(`polaris_db_tdldb_$1_use'`,
    gen_require(`
        type $2;
    `)
    read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
)
polaris_tdldb_use(dollarsone, $2, $3)
"

define('polaris_database', 'dnl'
polaris_database_aux(database_stem($1), database_label($1), $1) dnl
')

define('polaris_database_process', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_if.m4
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2021 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polarishm, 1.0);

gen_require(''
    type polaris_hm_t;
')

polaris_btrace_data_manage(polaris_hm_t)
polaris_chasfs_manage(polaris_hm_t)
polaris_tdlresolve_read(polaris_hm_t)
polaris_tdldb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)
polaris_rpic_sman_ui_serv_connect(polaris_hm_t)

polaris_db_tdldb_dir_use(polaris_hm_t)

files_getattr_all_files(polaris_hm_t)
files_getattr_all_dirs(polaris_hm_t)
gen_require(''
    attribute non_security_file_type;
')
allow polaris_hm_t { non_security_file_type } : dir list_dir_perms;

# hman need to read proc for all processes to collect CPU
```c
# utilization information
domain_read_all_domains_state(polaris_hm_t)
domain_signull_all_domains(polaris_hm_t)

kernel_read_system_state(polaris_hm_t)

# hman needs to run "df /dev/shm" command
corecmd_exec_bin(polaris_hm_t)
corecmd_exec_shell(polaris_hm_t)

# hman needs to operate on all maroon files
polaris_maroon_data_manage_all(polaris_hm_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_hm_t)

fs_getattr_tmpfs(polaris_hm_t)

# work with /tmp files (/tmp/myhostname)
type polaris_hm_tmp_t;
files_tmp_file(polaris_hm_tmp_t)
manage_files_pattern(polaris_hm_t, tmp_t, polaris_hm_tmp_t)
files_tmp_filetrans(polaris_hm_t, polaris_hm_tmp_t, file, "myhostname")

allow polaris_hm_t self:capability { chown fsetid dac_override kill sys_resource sys_ptrace }; allow polaris_hm_t self:process setsched; allow polaris_hm_t self:unix_dgram_socket create; allow polaris_hm_t self:cap_users { kill sys_ptrace };
polaris_boot_tmp_read(polaris_hm_t)

# Allow write to flash. Needed for usb disable feature
ifdef(`ngwc_family',`
polaris_flashlib_write(polaris_hm_t)
`)

# "show platform software mount RP active" command needs attributes of
# all file systems
fs_getattr_all_fs(polaris_hm_t)
# above show command accesses /var/run/netns/2
fs_read_nsfs_files(polaris_hm_t)
# reads /scratch link which is labeled as polaris_disk_bootflash_t
polaris_disk_bootflash_read_lnk(polaris_hm_t)
polaris_disk_harddisk_read_lnk(polaris_hm_t)

# needed for "show platform software bound-uds RP active"
kernel_read_network_state(polaris_hm_t)
```
# "show rom-monitor R0" needs content of /proc/rmonbifo/bootver;
# please refer to hman_ui.tpp file
polaris_proc_rmonbifo_read(polaris.hm.t)

# "show plat soft yang-management process r0" invokes hm_show_yang_proc_cb;
# "show plat soft iox-service" invokes hm_iox_srvc_show_cb;
# They invoke "ps -C" which needs access to /sys/devices/system/cpu/online
# TODO: should we replace system() with something like hm_get_procs_with_name_running
dev_read_sysfs(polaris.hm.t)
# "show platform software yang-management process state" invokes /bin/mcp_pkg_wrap,
# which sources /tmp/sw/boot/rmonbifo/env_var.sh
polaris_rmonbifo_tmp_read(polaris.hm.t)
# show iox-service requires reading of libvirt_ver of created under CAF context
optional_policy('polaris_caf_tmp_files_read(polaris.hm.t)')

# hardcoded policy for hm to df, per Victor
optional_policy('gen_require('
    type polaris_iosd_portal_dmi_lipc_t;
    type polaris_iosd_portal_app_lipc_t;
')
    allow polaris.hm.t { polaris_iosd_portal_dmi_lipc_t polaris_iosd_portal_app_lipc_t }:sock_file getattr;
')

# during "show version installed" command
# "grep -q srdriver /tmp/sw/rp/local/0/rp_base/iso" which is link to the universal image
polaris_bootflash_read(polaris.hm.t)
# this is for calcsha.sh (invoked by the command above) but might work for others too
polaris_install_engine_domtrans(polaris.hm.t)
# this if for hman to read and delete /tmp/version.info created by calcsha.sh in prev context type
polaris_install_tmp_read(polaris.hm.t)
gen_require('type polaris_install_tmp_t;
')
allow polaris.hm.t polaris_install_tmp_t:file unlink;

# need open, read on /bootflash/packages.conf (grep sha1sum: /tmp/packages.conf)
polaris_read_packages_conf(polaris.hm.t)

# This is created for hman to grant it access to /bootflash/topnmemuse
polaris_bootflash_manage(polaris.hm.t)

# read /tmp/pkg_summary.txt file
polaris_pkg_summary_tmp_read(polaris.hm.t)
polaris_zram_getattr(polaris.hm.t)
optional_policy('polaris_ssd_auth_domtrans(polaris_hm_t) ')

optional_policy('polaris_ssd_unmount_domtrans(polaris_hm_t) ')

optional_policy('polaris_confd_domtrans(polaris_hm_t) ')

############################################################################
# show platform software process slot R0 monitor
# mcp_monitor_process_batchmode.sh
#/bin/sh /usr/binos/conf/bexec.sh -c /usr/binos/conf/mcp_monitor_process_batchmode.sh -n 1 -d 3 -l 0
############################################################################

polaris_utility_domain_template(monitor_process)
polaris_bexecute_domtrans(polaris_hm_t)
polaris_bexecute_domain(polaris_monitor_process_t, polaris_monitor_process_exec_t)

# mcp_monitor_process_batchmode.sh calls "top" command
# "top" needs read/getattr access of various files in the system
domain_read_all_domains_state(polaris_monitor_process_t)

# "top" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_process_t)

# "top" need read access to /proc/meminfo, /proc/stat
kernel_read_system_state(polaris_monitor_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[118396]"
polaris_hman_use_fifo(polaris_monitor_process_t)
corecmd_exec_bin(polaris_monitor_process_t)

gen_require('type admin_home_t;
')
#top -b -n3 -d3 needs permission to create dir /.config ,write
to files and add files
allow polaris_monitor_process_t admin_home_t:dir { add_name create write };
allow polaris_monitor_process_t self:capability sys_ptrace;
pkg_summary.sh: show version R0 installed
/bin/bash /usr/binos/conf/pkg_summary.sh -o /tmp/pkg_summary.txt -d model -P

polaris_utility_domain_template(pkg_summary)

polaris_pkg_summary_domtrans(polaris_hm_t)

# it executes find /tmp/sw -maxdepth 5 -mindepth 5 -name mount
files_getattr_all_dirs(polaris_pkg_summary_t)
files_getattr_all_files(polaris_pkg_summary_t)
files_read_all_dirs_except(polaris_pkg_summary_t)

polaris_chasfs_read(polaris_pkg_summary_t)
polaris_cpld_read(polaris_pkg_summary_t)
polaris_use_btrace_fifo(polaris_pkg_summary_t)
polaris_rmonbifo_tmp_read(polaris_pkg_summary_t)
polaris_btrace_data_manage(polaris_pkg_summary_t)
polaris_boot_tmp_read(polaris_pkg_summary_t)

# need open, read on /bootflash/debug.conf
polaris_read_debug_conf(polaris_pkg_summary_t)

polaris_read_packages_conf(polaris_pkg_summary_t)

allow polaris_pkg_summary_t self:capability sys_resource;

corecmd_exec_bin(polaris_pkg_summary_t)

auth_use_nsswitch(polaris_pkg_summary_t)

polaris_disk_crashinfo_getattr(polaris_pkg_summary_t)

# read /proc/cmdline
kernel_read_system_state(polaris_pkg_summary_t)

# handle /tmp/pkg_summary.txt file
type polaris_pkg_summary_tmp_t;
files_tmp_file(polaris_pkg_summary_tmp_t)
files_tmp_filetrans(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, file)
manage_files_pattern(polaris_pkg_summary_t, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t, file)
# pkg_to_tree.sh : Generates a software tree based on a provisioning file.
# /bin/bash /usr/binos/conf/pkg_to_tree.sh -c /tmp/packages.conf
#   -t /tmp/show_patch_provision_temp -p /tmp/sw/isos
#   -r /tmp/show_provision_temp -a -q

polaris_utility_domain_template(pkg_to_tree)

gen_require('
  type unconfined_service_t;
  
')
polaris_pkg_to_tree_domtrans([unconfined_service_t polaris_hm_t])

files_getattr_all_files(polaris_pkg_to_tree_t)
polaris_harddisk_read(polaris_pkg_to_tree_t)
polaris_cpld_read(polaris_pkg_to_tree_t)
polaris_use_btrace_fifo(polaris_pkg_to_tree_t)
polaris_rmonbifo_tmp_read(polaris_pkg_to_tree_t)
polaris_btrace_data_manage(polaris_pkg_to_tree_t)
polaris_boot_tmp_read(polaris_pkg_to_tree_t)
polaris_patch_data_manage(polaris_pkg_to_tree_t)

# if being executed on other node, telnet /dev/ptsN might be used
# as stdin/stdout
telnet_use_ptys(polaris_pkg_to_tree_t)

# pkg_to_tree.sh creates/deletes directories and files under
# /tmp/show_provision_temp
type polaris_show_provision_tmp_t;
files_tmp_file(polaris_show_provision_tmp_t)
polaris_show_provision_temp_manage(polaris_pkg_to_tree_t)

# pkg_to_tree.sh verifies each package as it is mounted
polaris_code_verify_domtrans(polaris_pkg_to_tree_t)

corecmd_exec_bin(polaris_pkg_to_tree_t)
polaris_disk_crashinfo_getattr(polaris_pkg_to_tree_t)

# manage the /tmp/lf symbolic link
type polaris_pkg_to_tree_tmp_t;
files_tmp_file(polaris_pkg_to_tree_tmp_t)
files_tmp_filetrans(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, lnk_file, "lf")
manage_lnk_files_pattern(polaris_pkg_to_tree_t, polaris_pkg_to_tree_tmp_t, polaris_pkg_to_tree_tmp_t)

# permit pkg_to_tree.sh mounting to use conf/pkg files in bootflash
polaris_bootflash_read(polaris_pkg_to_tree_t)
polaris_disk_bootflash_search(polaris_pkg_to_tree_t)
# we want to read the existing mounts in chasfs
polaris_chasfs_read(polaris_pkg_to_tree_t)

# pkg_to_tree.sh interfaces with installer data, including ISSU files
polaris_install_tmp_log_write(polaris_pkg_to_tree_t)
polaris_sw_data_manage(polaris_pkg_to_tree_t)
polaris_read_packages_conf(polaris_pkg_to_tree_t)
polaris_issu_tmp_files_manage(polaris_pkg_to_tree_t)
polaris_install_tmp_manager(polaris_pkg_to_tree_t)

# allow pkg_to_tree.sh to do the loopback mounts of packages and manage
# mount links in tmp. This includes mapping mounted passwd file and
# mounting sysfs. This is also needed to mount /mnt/sd3/tox_alt_hdd.dsk
mount_domtrans(polaris_pkg_to_tree_t)
auth_map_passwd(polaris_pkg_to_tree_t)
dev_list_sysfs(polaris_pkg_to_tree_t)
allow polaris_pkg_to_tree_t sysfs_t:file { getattr open read }; allow polaris_pkg_to_tree_t tmp_t:lnk_file { create rename unlink };

# when expanding/installing super images, pkg_to_tree uses install_engine_exec_t
# utilities like issu_check
polaris_install_engine_domtrans(polaris_pkg_to_tree_t)

########################################################################
# misc hman cli(s)
########################################################################

# hman needs access to /bootflash/.issu_loc_lock
polaris_issu_files_manage(polaris_hm_t)

# hman process creates/deletes directories and files under
# /tmp/show_provision_temp
polaris_show_provision_temp_manager(polaris_hm_t)

# signal send during show platform software process slot R0 monitor
polaris_send_signal_to_bexecute(polaris_hm_t)

polaris_dyncfg_tmp_read(polaris_hm_t)

polaris_disk_crashinfo_getattr(polaris_hm_t)

# setting up /dev/ttyS0 speed from hman_handle_console_baud_rate_change
term_use_unallocated_ttys(polaris_hm_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_hm_t)
# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_hm_t)

# hman starts agetty-iosd.service in case of nyquist stack
getty_systemctl(polaris_hm_t)

# This block is policies for "sh pla so filesystem bootflash: de" CLI
polaris_utility_domain_template(cli_fs_cmds)

gen_require(
    type polaris_bexecute_t;
')
polaris_bexecute_domtrans(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_bexecute_t)
telnet_use_ptys(polaris_cli_fs_cmds_t)

# Blanket permission for disk management for cli_fs_cmds (for show/erase fs)
polaris_persistent_manage(polaris_cli_fs_cmds_t)
# permission to manage removable ( seems pretty safe )
polaris_removable_manage(polaris_cli_fs_cmds_t)
polaris_getattr_removable(polaris_cli_fs_cmds_t)
fs_read_removable_symlinks(polaris_cli_fs_cmds_t)
# btrace.sh needs these
polaris_boot_tmp_read(polaris_cli_fs_cmds_t)
polaris_btrace_tmmppub_read(polaris_cli_fs_cmds_t)
# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ncd_tmp_read(polaris_cli_fs_cmds_t)
')

#need to access pipes like pipe:[107820]
polaris_hman_use_fifo(polaris_cli_fs_cmds_t)

# df or stat the mount point
fs_getattr_nfs(polaris_cli_fs_cmds_t)
# mkfs permissions via domtrans
fstools_domtrans(polaris_cli_fs_cmds_t)
# runs NFS exportfs ( copied from ncd )
rpc_read_exports(polaris_cli_fs_cmds_t)
rpc_write_exports(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data_dir(polaris_cli_fs_cmds_t)
rpc_manage_nfs_state_data(polaris_cli_fs_cmds_t)
fs_rw_nfsd_fs(polaris_cli_fs_cmds_t)
kernellw_rpc_sysctls(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
# rsync/remote_format perms ( rsync borrowed from polariscrft.te )
polaris_udev_tmp_list_dirs(polaris_cli_fs_cmds_t)
gen_require("
type rsync_exec_t;
type rsync_port_t;
type rsync_tmp_t;
'
allow polaris_cli_fs_cmds_t rsync_port_t/tcp_socket name_connect;
allow polaris_cli_fs_cmds_t rsync_exec_t/file { execute execute_no_trans getattr map open read };

allow polaris_cli_fs_cmds_t rsync_tmp_t/file open;

allow polaris_cli_fs_cmds_t self/capability { chown fsetid setgid };

# Need to access /proc/self/fd/1 by platform_fs_operation.sh which is invoked by 
# /bin/bash/usr/bin/conf/mcp_cli_fs_cmds.sh show bootflash:all
fs_associate_proc(polaris_cli_fs_cmds_t)
polaris_cli_fs_cmds_domtrans(polaris_hm_t)

corecmd_exec_bin(polaris_cli_fs_cmds_t)
polaris_cpld_read(polaris_cli_fs_cmds_t)
polaris_chasfs_manage(polaris_cli_fs_cmds_t)
polaris_use_btrace_fifo(polaris_cli_fs_cmds_t)
polaris_rmonbifo_tmp_read(polaris_cli_fs_cmds_t)

auth_use_nsswitch(polaris_cli_fs_cmds_t)

# allow polaris_cli_fs_cmds_t polaris_udev_tmp_files_t/file open;
polaris_udev_tmp_read(polaris_cli_fs_cmds_t)

# watch on modify /tmp/udev/etc/udev/usbflash1-2/udev-info for remote/stby usb device
polaris_udev_tmp_watch(polaris_cli_fs_cmds_t)

# allow to run mount in its own domain
mount_domtrans(polaris_cli_fs_cmds_t)

# runs systemctl to remount file system.
# usb[01] fs_target remount service used.
systemd_exec_systemctl(polaris_cli_fs_cmds_t)
systemd_config_generic_services(polaris_cli_fs_cmds_t)

# allow to run readlink -f /dev/bootflash1
storage_getattr_fixed_disk_dev(polaris_cli_fs_cmds_t)

# allow "format" CLI to add/delete links in /dev/, and /; e.g., /dev/harddisk1 /harddisk
def(`crankshaft_family',
    gen_require(
        type device_t;
        type root_t;
        type udev_t;
    )
)
	#/dev/harddisk1 -> /dev/dm-0
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk")
# /harddisk -> /misc/scratch
filetrans_pattern(polaris_cli_fs_cmds_t, root_t, polaris_disk_bootflash_t, lnk_file, "harddisk")

manage_lnk_files_pattern(polaris_cli_fs_cmds_t, fixed_disk_device_t, fixed_disk_device_t)
)
seutil_domtrans_setfiles(polaris_cli_fs_cmds_t)
polaris_hman_use_fifo(setfiles_t)
# need open, read on /bootflash/packages.conf
polaris_read_packages_conf(polaris_cli_fs_cmds_t)

# "sed" needs access to /proc/cmdline
kernel_read_system_state(polaris_cli_fs_cmds_t)

# work with /tmp files (/tmp/fs_lock_bootflash)
type polaris_cli_fs_cmds_tmp_t;
gen_require(

    type tmp_t;
)
files_tmp_file(polaris_cli_fs_cmds_tmp_t)
manage_files_pattern(polaris_cli_fs_cmds_t, tmp_t, polaris_cli_fs_cmds_tmp_t)
files_tmp_filetrans(polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_tmp_t, file)

"find /vol/disk0/caf" when show CLI is executed
polaris_caf_tmp_files_read(polaris_cli_fs_cmds_t)

# Caf and IOxMan-CLI interaction
polaris_caf_tmp_files_manage(polaris_cli_fs_cmds_t)

# mcp_cli_fs_cmds.sh show webui: all runs df -P /webui
fs_getattr_tmpfs(polaris_cli_fs_cmds_t)
polaris_persistent_getattr(polaris_cli_fs_cmds_t)
fs_getattr_xattr_fs(polaris_cli_fs_cmds_t)
allow polaris_cli_fs_cmds_t self:capability dac_override;
allow polaris_cli_fs_cmds_t self:dir { add_name write };

# allow caf access to mcp_cli_fs_cmds.sh for fsck on ngwc platforms
ifdef(`ngwc_family',`
    domain_read_all_domains_state(polaris_cli_fs_cmds_t)
polaris_caf_domtrans(polaris_cli_fs_cmds_t)
polaris_caf_files_read(polaris_cli_fs_cmds_t)
dev_read_sysfs(polaris_cli_fs_cmds_t)
')

******************************************************************************
# fsck CLI using mcp_cli_fs_cmds.sh as tested on sparrow
# allow fsck in mcp_cli_fs_cmds.sh to execute udev in the udev domain
udev_domtrans(polaris_cli_fs_cmds_t)

# allow cryptsetup to be executed
lvm_domtrans(polaris_cli_fs_cmds_t)

# allow fsck to run on bootflash
polaris_nvram_getattr(polaris_cli_fs_cmds_t)

# during SDWAN admin-tech generation, fs_display_*() in mcp_cli_fs_cmds.sh is
# invoked; this tries to find files like /bootflash/tracelogs/cia-netcon* with
# LABEL polaris_conf_d_var_log_t
polaris_conf_d_var_log_read(polaris_cli_fs_cmds_t)

# hm calls df to figure out tmpfs size, on some platforms
# where configfs is mounted it needs statfs access to it
gen_require(
    type configfs_t;
')
allow polaris_hm_t configfs_t:dir getattr;

# hm populates vrf shm on behalf of iosd, and may create
# and delete vrf-based netns
polaris_vrf_netns_manage(polaris_hm_t)
fsUnmountNsfs(polaris_hm_t)

# read udev_info
polaris_udev_tmp_read(polaris_hm_t)

gen_require(
    type rsync_t;
')
allow rsync_t polaris_hm_t:fifo_file read;

# show platform software yang-management process monitor
mcp_monitor_dmi_proc.sh

# /bin/bash /bin/mcp_pkg_wrap rp_daemons /usr/binos/conf/mcp_monitor_dmi_proc.sh

# mcp_monitor_dmi_proc.sh calls "ps" command
# "ps" needs read/getattr access of various files in the system
# ps -eo comm,pid,s,vsize,rssize,%cpu,%mem,etime --sort=comm
domain_read_all_domains_state(polaris_monitor_dmi_process_t)
# "ps" needs access to /proc/uptime
kernel_read_system_state(polaris_monitor_dmi_process_t)

# "ps" needs access to /sys/devices/system/cpu/online, etc
dev_read_sysfs(polaris_monitor_dmi_process_t)

# "ps" need read access to /proc
kernel_list_proc(polaris_monitor_dmi_process_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_monitor_dmi_process_t)

# executes head command
corecmd_exec_bin(polaris_monitor_dmi_process_t)

# sources cyan_api.sh
files_exec_usr_files(polaris_monitor_dmi_process_t)

# /bin/bash /tmp/sw/rp/0/0/rp_daemons/mount/usr/binos/conf/mcp_monitor_dmi_proc.sh
corecmd_shell_entry_type(polaris_monitor_dmi_process_t)

# need write/ioctl/getattr access for pipes like "pipe:[79843]"
polaris_hman_use_fifo(polaris_monitor_dmi_process_t)

# read /etc/init.d/quad_sup_usb_infra.sh
init_read_script_files(polaris_cli_fs_cmds_t)
#This triggers access to /tmp/flashlock and /dev/sda3
polaris_flashlib_lock(polaris_cli_fs_cmds_t)
#allow flash utility
polaris_flashlib_read(polaris_cli_fs_cmds_t)
# /sys/bus/usb/drivers/usb/*/authorized is accessed (read and write) from hman.
# For USB disable feature across all ngwc platforms needs authorized file to
# be accessed.
ifdef(`ngwc_family',`
gen_require(
    type sysfs_t;
    ')
    allow polaris_hm_t sysfs_t:file create;
dev_rw_sysfs(polaris_hm_t)
dev_manage_sysfs_dirs(polaris_hm_t)
'
)

# work with /tmp files (/tmp/usb-disable)
polaris_iosd_usb_disable_tmp_manage(polaris_hm_t)

#need access to tmp files created under issu directory
polaris_issu_tmp_files_read(polaris_hm_t)
## <summary>Polaris ngwc_tbl_mgr Policy Rules.</summary>

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

## <summary>Polaris polarisbtman Policy Rules.</summary>

No license file was found, but licenses were detected in source scan.
### <summary>
### Domain allowed to transition.
### </summary>
#
interface(`polaris_btrace_rotate_domtrans',
  gen_require(
    type polaris_btman_t, polaris_btman_exec_t;
  )
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_btman_exec_t, polaris_btman_t)
')

### <summary>
### Read /tmp/tmppub files/dirs
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_btrace_tmppub_read',
  gen_require(
    type polaris_btrace_tmppub_t;
  )
)
read_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
read_lnk_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
list_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
')

### <summary>
### Manage /tmp/tmppub files/dirs
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_btrace_tmppub_manage',
  gen_require(
    type polaris_btrace_tmppub_t;
  )
)
manage_files_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern($1, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
')

###################################################
## <summary>
## Read and write all btman's fifo file, used as
##     standard input/output.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface(`polaris_use_btman_fifo',
  gen_require(`
    type polaris_btman_t;
  ')

allow $1 polaris_btman_t:fifo_file { rw_term_perms lock append create unlink };
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.if
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#
## <summary>Polaris webui Policy Rules.</summary>

###################################################
## <summary>
## Read files under /webui/..., these are webui odm file
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#

interface('polaris_read_webui_files',
    gen_require(
        type polaris_webui_file_t;
    )
)

read_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
read_link_files_pattern($1, polaris_webui_file_t, polaris_webui_file_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswebui.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/tmp/fp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t:s0)
/tmp/rp/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t:s0)
/tmp/cc/tdldb(/.*)?                      gen_context(system_u:object_r:polaris_tdldb_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris NVRAM Policy Rules.</summary>

########################################################################################################################
# Polaris Ismpi
########################################################################################################################

########################################################################################################################
## <summary>
## Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
## Domain allowed access.
interface('polaris_lsmpi_dev_use',
    gen_require(''
        type device_t;
        type polaris_lsmpi_device_t;
    ')
    write_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    read_chr_files_pattern($1, device_t, polaris_lsmpi_device_t)
    allow $1 polaris_lsmpi_device_t:chr_file map;
')

interface('polaris_lsmpi_sysctl_read',
    gen_require(''
        type polaris_sysctl_lsmpi_t;
    ')
    read_files_pattern($1, polaris_sysctl_lsmpi_t, polaris_sysctl_lsmpi_t)
')

interface('polaris_contdev_dev_read',
    gen_require(''
        type polaris_sysfs_contdev_t;
    ')
    read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
')
read_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
list_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

########################################################################
## <summary>
##      Write into /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_contdev_dev_write',
  gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
    )
  write_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

########################################################################
## <summary>
##      Manage /sys/devices/virtual/contdev sysfs files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_manage_contdev_dev',
  gen_require(
    type polaris_sysfs_contdev_t;
    type sysfs_t;
    )
  manage_files_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
  manage_dirs_pattern($1, polaris_sysfs_contdev_t, polaris_sysfs_contdev_t)
# genfscon statement specifically excludes symbolic links from
# genfscon path specific entries. To workaround, let us allow
# to follow sysfs_t symbolic links
allow $1 sysfs_t:lnk_file read;
')

######################################
## <summary>
## Allow the specified domain to manage punt/inject socket
## files. I.e /tmp/pi/dp_2_iosd_pi and /tmp/pi/iosd_2_dp_pi
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pi_uds_manage',`
    gen_require(
        type polaris_pi_uds_t;
    )

    manage_sock_files_pattern($1, polaris_pi_uds_t, polaris_pi_uds_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislsmpi.if
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# # March 2017, Victor Kamensky
#
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#
/usr/binos/conf/issu_stack.sh -- gen_context(system_u:object_r:polaris_issu_stack_exec_t,s0)

/tmp/issu_stk(/.*)? gen_context(system_u:object_r:polaris_issu_stack_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.fc
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# # August 2017, Shawn Lu
#
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policy_module(polarisxcopy, 1.0);

##############################################################################
### xcopy_script.sh
##############################################################################
polaris_utility_domain_template(xcopy_script)
polaris_bexecute_domain(polaris_xcopy_script_t, polaris_xcopy_script_exec_t)
# xcopy_script.sh call other scripts through brelay.sh
polaris_bexecute_domtrans(polaris_xcopy_script_t)
polaris_chasfs_manage(polaris_xcopy_script_t)

# xcopy calls curl/sshpass/scp command and support scp/http/https
gen_require(
    type polaris_curl_t;
    type ssh_exec_t;
    type ssh_home_t;
    type devpts_t;
)
polaris_curl_domtrans(polaris_xcopy_script_t)
corenets_tcp_connect_ssh_port(polaris_curl_t)
corenets_tcp_connect_http_port(polaris_curl_t)
corenets_tcp_connect_ssh_port(polaris_xcopy_script_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_xcopy_script_t)

# read polaris vrf net namespace file
fs_read_nsfs_files(polaris_xcopy_script_t)

# curl needs access to bootflash
polaris_bootflash_manage(polaris_curl_t)
polaris_bootflash_manage(polaris_xcopy_script_t)

# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(
polaris_ncd_tmp_read(polaris_xcopy_script_t)
)

# Execute
corecmd_exec_bin(polaris_xcopy_script_t)

# uses kernel utilities like pidof, stat
domain_read_all_domains_state(polaris_xcopy_script_t)
kernellist.proc(polaris_xcopy_script_t)

# read /proc/cmdline
kernellist.system_state(polaris_xcopy_script_t)
fs_getattr_tmpfs(polaris_xcopy_script_t)
fs_getattr_xattr_fs(polaris_xcopy_script_t)

# xcopy started from the smand and needs fifo
polaris_smand_use_fifo(polaris_xcopy_script_t)

# ping to check reachability
netutils_domtrans_ping(polaris_xcopy_script_t)
#
# calls mcp_chvrf.sh for ping and curl
polaris_chvrf_domtrans(polaris_xcopy_script_t)

# xcopy uses ps to find the curl process state
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_xcopy_script_t)

# Started by bexecute so it has its stdin set to telnet pty file
telnet_use_ptys(polaris_xcopy_script_t)

# stdout is set to fifo set by rotte to capture output into btrace
# btrace also need these policies :)
# btrace_init also refer to /tmp/sw/boot/..
polaris_use_btrace_fifo(polaris_xcopy_script_t)
polaris_cpld_read(polaris_xcopy_script_t)
polaris_boot_tmp_read(polaris_xcopy_script_t)

# Allow /tmp/xcopy/
type polaris_xcopy_tmp_t;
files_tmp_file(polaris_xcopy_tmp_t)
files_tmp_filetrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, { dir file })
polaris_xcopy_tmp_manage(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manage(polaris_curl_t)

# PS command access ttyS1
term_getattr_unallocated_ttys(polaris_xcopy_script_t)

# sshpass/scp
ssh_getattr_user_home_dir(polaris_xcopy_script_t)

# sshpass uses the ptmx
term_use_ptmx(polaris_xcopy_script_t)
term_getattr_pty_fs(polaris_xcopy_script_t)

# scp uses ssh
#allow polaris_xcopy_script_t ssh_exec_t:file { execute execute_no_trans map open read }; ssh_exec(polaris_xcopy_script_t)

allow polaris_xcopy_script_t self:capability {sys_resource fsetid};
allow polaris_xcopy_script_t self:process setfscreate;
allow polaris_xcopy_script_t ssh_home_t:dir { create search };
allow polaris_xcopy_script_t devpts_t:chr_file { getattr open read setattr write };

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.te
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#
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#
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#
#
## <summary>Polaris dmi_ncsshd_fwd Policy Rules.</summary>

#################################################################
##
##     Connect to and send messages to dmi ncsshd_bp
## tmp/ncsshd_bp.sock unix datagram sockets.
##
## </summary>
##
## <param name="domain">
##     Domain allowed access.
##
## </param>
##
#
interface('polaris_dmi_ncsshd_fwd_dgram_send',
    gen_require('  
        type polaris_dmi_ncsshd_log_t;  
        type polaris_dmi_ncsshd_fwd_t; 
    ')
)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_dmi_ncsshd_fwd_unix_stream_socket {connectto};
write_sock_files_pattern($1, polaris_dmi_ncsshd_log_t, polaris_dmi_ncsshd_log_t)
')

########################################
## <summary>
##      Write into fifo file created by dmi_ncsshd_fwd, typical case when
##      hman starts script under popen.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolecap/>
#
interface('polaris_dmi_ncsshd_fwd_use_fifo',
    gen_require('  
        type polaris_dmi_ncsshd_fwd_t;
    ')
)
write_fifo_files_pattern($1, polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_fwd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdlmncsshd_fwd.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
deфини('polaris_database_aux', dnl
tmp/rp/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
tmp/fp/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
tmp/cc/tldlb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
tmp/rp/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
tmp/fp/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
tmp/cc/tldlb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
define('polaris_database', 'dnl polaris_database_aux(database_label($1), $1)')

define('polaris_database_process', '')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_fc.m4
No license file was found, but licenses were detected in source scan.

#
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#
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#

### <summary>Polaris ioxman Policy Rules.</summary>

############################################
### <summary>
##      Manage ioxman temporary files and directories in /tmp.
## Like /tmp/ios_xml.dat.
### </summary>
### <param name="domain">
##      Domain allowed access.
### </param>
#
interface('polaris_iox_manage_tmp_files',
  gen_require(' type polaris_iox_tmp_t;
  ')

  manage_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
  files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_xml.dat")
  files_tmp_filetrans($1, polaris_iox_tmp_t, file, "iox_override.conf")
  # /tmp/trace/resource.log can be created by ioxman/vman/caf
  # through sourcing in the family of the pvm_*_sh scripts
  files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
  ')

############################################
### <summary>
##      Read ioxman temporary files and directories in /tmp.
### </summary>
## Like /tmp/ios_xml.dat and /tmp/iox_override.conf

### <summary>
Domain allowed access.
</summary>

### <param name="domain">
Domain allowed access.
</param>

```c
interface('polaris_iox_read_tmp_files',
  gen_require(
    type polaris_iox_tmp_t;
  )
)

read_files_pattern($1, polaris_iox_tmp_t, polaris_iox_tmp_t)
')

########################################

### <summary>
Make the specified domain able to work with iosd2iox files
</summary>

### <param name="type">
Domain allowed access.
</param>

```c
interface('polaris_iox2iosd_tmp_manage',
  gen_require(
    type polaris_iox2iosd_tmp_t;
  )
)

manage_dirs_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
manage_files_pattern($1, polaris_iox2iosd_tmp_t, polaris_iox2iosd_tmp_t)
')

########################################

### <summary>
Read ioxman executable file. Used by caf to read iosman version.
</summary>

### <param name="domain">
Domain allowed access.
</param>

```c
interface('polaris_ioxman_exec_read',
  gen_require('}
type polaris_ioxman_exec_t;
   type bin_t;
)

read_files_pattern($1, bin_t, polaris_ioxman_exec_t)
')

######################################
## <summary>
##      Allow the specified domain to get show_version information
## from ioxman executable
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_ioxman_show_version',`
   gen_require(`
       type polaris_ioxman_exec_t;
   ')
   polaris_show_version($1, polaris_ioxman_exec_t)
')

######################################
## <summary>
##      Allow the specified domain to get show_version information
## from dockerd and other container_runtime_t executables
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_container_runtime_show_version',`
   gen_require(`
       type container_runtime_exec_t;
   ')
   polaris_show_version($1, container_runtime_exec_t)
')

######################################
## <summary>
##      Execute a domain transition to run cat9k_ssd_auth_cmds.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain transition to run cat9k_ssd_auth_cmds.sh
##      </summary>
## </param>
#
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_ssd_auth_domtrans',`
  gen_require(`
    type polaris_ssd_auth_t, polaris_ssd_auth_exec_t;
  `)
)

domtrans_pattern($1, polaris_ssd_auth_exec_t, polaris_ssd_auth_t)
`)

#################################################################
## <summary>
## Read ssd files in /tmp/ssd_blk_device
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_read_ssd_tmp_files',`
  gen_require(`
    type polaris_ssd_auth_tmp_t;
  `)
)

  read_files_pattern($1, polaris_ssd_auth_tmp_t, polaris_ssd_auth_tmp_t)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.if
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# # Nov 2020, Swati Kumaro
# # Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

/dev/blzi_fpga -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_gps_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_lol_1pps -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_0 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_1 -c gen_context(system_u:object_r:polaris_blzi_device_t:s0)
/dev/blzi_ts_interest_2 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_3 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_4 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)
/dev/blzi_ts_interest_5 -c gen_context(system_u:object_r:polaris_blzi_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.fc
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#
# January 2021, Gabriel Lee, Shawn Liu
# # Copyright (c) 2021 by Cisco Systems, Inc.
# # All rights reserved
#

policy_module(polarisezmanage, 1.0);

type polaris_ezmanage_file_t;
files_type(polaris_ezmanage_file_t)
polaris_pfile_type(polaris_ezmanage_file_t)

polaris_process_domain_template(ezmanage)

# Allow ezManage script to be executed by systemd
gen_require(
    type unconfined_service_t;
')
polaris_ezmanage_domtrans(unconfined_service_t)

# Allow ezManage file and directory access
polaris_manage_ezmanage_files(polaris_ezmanage_t)

# Allow ezManage socket access
allow polaris_ezmanage_t self:unix_dgram_socket { connected_socket_perms sendto };

# Allow read of /etc/passwd
auth_use_nsswitch(polaris_ezmanage_t)

# ezManage python script needs access to USB ttys for modem AT channel
term_use_usb_ttys(polaris_ezmanage_t)

# ezManage python script needs /usr/bin/python3 execution and may also call other generic system bin utilities
corecmd_exec_bin(polaris_ezmanage_t)

# ezManage needs to access /bootflash/ciscosdwan.cfg and a variably named tar file in /bootflash/modem_firmware
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "ciscosdwan.cfg")
polaris_bootflash_filetrans(polaris_ezmanage_t, polaris_ezmanage_file_t, file, "modem_firmware.tar.gz")

# ezManage socket file is created in /var/run
type polaris_ezmanage_var_run_t;
files_pid_file(polaris_ezmanage_var_run_t)
files_pid_filetrans(polaris_ezmanage_t, polaris_ezmanage_var_run_t, sock_file, "cwan_ezmanage_py_server")

# Allow ezManage to access its socket file in /var/run
polaris_manage_ezmanage_var_run_files(polaris_ezmanage_t)

# Allow ezManage to access ngiolite socket file in /var/run
gen_require(
    type polaris_cwan_svr_var_run_t;
')
rw_sock_files_pattern(polaris_ezmanage_t, polaris_cwan_svr_var_run_t, polaris_cwan_svr_var_run_t)

# Allow ezManage to access ngiolite dgram_socket
gen_require(
    type polaris_ngiolite_t;
')
allow polaris_ezmanage_t polaris_ngiolite_t:unix_dgram_socket sendto;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmanage.te
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris dbm Policy Rules.</summary>

###########################################
## <summary>
##      Setup /bootflash/.dbpersist directory and content.
## </summary>
## <param name="domain">
## <summary>
##      Domain allowed access.
## </summary>
## </param>
#
interface('polaris_tddbpersist_setup',
    gen_require(
        type polaris_disk_bootflash_t;

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  20451
type polaris_disk_dbm_t;

' )
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t, dir, ".dbpersist")
# allow creation of /bootflash/.dbpersist directory
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_dbm_t)
# dbm can manage files inside of its own polaris_disk_dbm_t directories
manage_files_pattern($1, polaris_disk_dbm_t, polaris_disk_dbm_t)
'

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux.tar/selinux/polarisdbm.if
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#
# May 2017, Victor Kamensky
#
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#
#
# polarismdtpubd file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux.tar/selinux/polarismdtpubd.fc
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#
# February 2020, Victor Kamensky
#
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#
#
policy_module(polaristtm, 1.0);

gen_require(
  type polaris_ttm_t;
')
polaris_chasfs_read(polaris_ttm_t)
polaris_cpld_read(polaris_ttm_t)

logging_send_syslog_msg(polaris_ttm_t)

# vconfd_load_shared_schemas
polaris_confd_shared_schema_read(polaris_ttm_t)

# /var/run/ttmd socket and pid
type polaris_ttm_var_run_t:
files_pid_file(polaris_ttm_var_run_t)
manage_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
manage_sock_files_pattern(polaris_ttm_t, polaris_ttm_var_run_t, polaris_ttm_var_run_t)
files_pid_filetrans(polaris_ttm_t, polaris_ttm_var_run_t, { file sock_file })

# allow /usr/binos/bin/ttdm to access polaris_tdlresolve_t and
# polaris_global_service_t
polaris_tdlresolve_manage(polaris_ttm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristtm.te
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#
# February 2020, Victor Kamensky
#
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#

depolicy_module(polarissdavcproxy, 1.0);

gen_require(
    type polaris_sdavc_proxy_t;
')

# btrace_application_start
polaris_chasfs_read(polaris_sdavc_proxy_t)
polaris_tdlresolve_read(polaris_sdavc_proxy_t)
polaris_cpld_read(polaris_sdavc_proxy_t)

# Allow SDAVC exports using UDP socket.
allow polaris_sdavc_proxy_t self:udp_socket create_socket_perms;

# Change namespace to allow network communication with vManage
(process_namespace_network_change_internal - opens /var/run/netns/*)
polaris_cedge_set_ns(polaris_sdavc_proxy_t)

# Reset the anamespace back to default (process_namespace_network_default opens /proc/1/ns/net)
polaris_cedge_reset_ns(polaris_sdavc_proxy_t)

type polaris_sdavc_proxy_files_t;
files_type(polaris_sdavc_proxy_files_t)
polaris_pfile_type( polaris_sdavc_proxy_files_t)

# Create /bootflash/sdavc directory, Write, Read & Removed files (For SDAVC imports)
polaris_bootflash_filetrans(polaris_sdavc_proxy_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_bootflash_filetrans(polaris_iosd_t, polaris_sdavc_proxy_files_t, dir, "sdavc")
polaris_sdavc_proxy_manage(polaris_sdavc_proxy_t)

# IOSd process also should have access to /bootflash/sdavc directory
gen_require(';
    type polaris_iosd_t;
');
polaris_sdavc_proxy_manage(polaris_iosd_t)

# Allow SDAVC imports (HTTP GET, PUT) we use /usr/bin/curl executable.
# Exe: curl -f -s --connect-time 10 -o /bootflash/sdavc/... -w %{http_code} http://<user>:<pw>@<vManage system ip>:<port>
# Run CURL in its domain so it wont have all sdavcproxy permissions.

gen_require(';
    type polaris_curl_t;
');
polaris_curl_domtrans(polaris_sdavc_proxy_t)
corenent_tcp_connect_generic_port(polaris_curl_t)

# CURL process also should have access to /bootflash/sdavc directory
polaris_sdavc_proxy_manage(polaris_curl_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.te
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#
# Sep 2020, Sridhar C
#
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#
/usr/binos/conf/xcopy_script.sh -- gen_context(system_u:object_r:polaris_xcopy_script_exec_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisxcopy.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
dnl
dnl divert(-1)
include(`polaris_process.m4')
dnl Stub out plaris process
define(`polaris_process','')

dnl Stub out mqipc
define(`polaris_mqipc_service_server','')
define(`polaris_mqipc_service_client','')
define(`polaris_mqipc_service_server_elastic_client','')

dnl Stub out lipc
define(`polaris_lipc_service_server','')
define(`polaris_lipc_service_client','')

class Include
  include(`polaris_ipc_ripc.m4')
  include(`polaris_ipc_base_ripc_te.m4')
end Include

dnl Stub out non existent one
define(`polaris_websocket_service_server','')
define(`polaris_cipc_service_server','')

include(`polaris_max_scope.m4')
divert(0)dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#
policy_module(autopolarisplatformipcbase, 1.0);

gen_require(`
  attribute port_type;
  attribute defined_port_type;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_te.m4
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#
# March 2017, Victor Kamensky
#
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#
policy_module(polarisdroputil, 1.0);
polaris_process_domain_template(droputil)

corecmd_exec_bin(polaris_droputil_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_droputil_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_droputil_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_droputil_t)

# work with /tmp files

type polaris_droputil_tmp_t;
files_tmp_file(polaris_droputil_tmp_t)
manage_dirs_pattern(polaris_droputil_t, tmp_t, polaris_droputil_tmp_t)
manage_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_fifo_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
manage_lnk_files_pattern(polaris_droputil_t, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
files_tmp_filetrans(polaris_droputil_t, polaris_droputil_tmp_t, { file dir })

# on some platform /tmp/rp/dropbox is created by binos service
# that runs under initrc_t

gen_require(
  type initrc_t;
  files_tmp_filetrans(initrc_t, polaris_droputil_tmp_t, dir, "dropbox")
)

allow polaris_droputil_t self:capability { sys_resource dac_override };
allow polaris_droputil_t self:process setpgid;

polaris_btrace_data Manage(polaris_droputil_t)
polaris_cpld_read(polaris_droputil_t)
polaris_chasfs_manage(polaris_droputil_t)
polaris_boot_tmp_read(polaris_droputil_t)
polaris_read_debug_conf(polaris_droputil_t)
polaris_disk_crashinfo_getattr(polaris_droputil_t)
polaris_rmonbifo_tmp_read(polaris_droputil_t)

# runs systemctl start reflector.service
systemd_exec_systemctl(polaris_droputil_t)

# PLEASE LOOK AT ME need to have separate label for reflector.service
# allow only to start if, do it once copy of reflector.service is fixed
systemd_config_generic_services(polaris_droputil_t)

# droputil.sh deletes /tmp/rp/droputil/so-del-stage/rp/0
fs_getattr_tmpfs(polaris_droputil_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisofa, 1.0);

gen_require(
    type polaris_ofa_t;
')

polaris_btrace_data_manage(polaris_ofa_t)
polaris_crft_data_manage(polaris_ofa_t)
polaris_chasfs_manage(polaris_ofa_t)
polaris_tdlresolve_read(polaris_ofa_t)
polaris_tdlldb_list_dirs(polaris_ofa_t)
polaris_cpld_read(polaris_ofa_t)
polaris_flashlib_read(polaris_ofa_t)

allow polaris_ofa_t self:capability sys_admin;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.te
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#
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#
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#

# /bootflash labels
/bootflash(/.*)?  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
/bootflash/ssh(/.*)?  gen_context(system_u:object_r:ssh_home_t,s0)
/bootflash/ssh/ssh_host.*_key\..*pub  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
/bootflash/tracelogs(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/tan(/.*)?  gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/bootflash/core(/.*)?  gen_context(system_u:object_r:polaris_core_file_t,s0)
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```
# /objstore
/objstore(/.*)? gen_context(system_u:object_r:polaris_disk_objstore_t,s0)
/dev/shm/sem/objstore_sem gen_context(system_u:object_r:polaris_objstore_sem_t,s0)

# hanet driver used by vpcgw platform of VXE family
ifdef(`vpcgw_platform',`
/dev/hanet -c gen_context(system_u:object_r:polaris_hanet_device_t,s0)
')

# /csl_p_0
/csl_p_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_p_1.context
/csl_p_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)

# /csl_s_0.context
/csl_s_0(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /csl_s_1.context
/csl_s_1(/.*)? gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# /varied
/varied(/.*)? gen_context(system_u:object_r:polaris_disk_varied_t,s0)
/varied/install_info gen_context(system_u:object_r:polaris_vxeinstall_info_t,s0)
/varied/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/varied/grub_cisco_version gen_context(system_u:object_r:polaris_grubver_t,s0)
/varied/grub(/.*)? gen_context(system_u:object_r:boot_t,s0)
/varied/grub2(/.*)? gen_context(system_u:object_r:polaris_grub_bios_t,s0)
/varied/vcpu_template.txt gen_context(system_u:object_r:polaris_iosd_vcpu_t,s0)

/sbin/grub* gen_context(system_u:object_r:bootloader_exec_t,s0)

# /bootefi
/bootefi(/.*)? gen_context(system_u:object_r:polaris_grub_edi_t,s0)

# from /lib/tmpfiles.d/binos-vxe.conf
/lic0 -l gen_context(system_u:object_r:polaris_disk_csl_p_t,s0)
/lic1 -l gen_context(system_u:object_r:polaris_disk_csl_s_t,s0)

# umbrella_ini.sh executable label
/usr/binos/conf/umbrella_init.sh -- gen_context(system_u:object_r:polaris_umbrella_init_exec_t,s0)

#
# On ultra_us /cpld_util.sh creates /tmp/chassis. Put this script into the initexec_t domain so
# chasfs transitions properly.
```
policy_module(polarisboot, 1.0);

# /tmp/sw/boot policy

type polaris_boot_tmp_t;
files_tmp_file(polaris_boot_tmp_t)
gen_require(
    attribute domain;
)
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "boot")
# /tmp/sw/ilos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "ilos")

# dmesg command is executed in its own domain and result is store
# into /tmp/sw/boot/dmesg file

gen_require(
    type dmesg_t;
)
polaris_boot_tmp_write(dmesg_t)

# /tmp/reload_reason copied from /bootflash/.prst_sync/reload_info
files_tmp_filetrans(domain, polaris_boot_tmp_t, file, "reload_reason")

# /tmp/boottup_timestamp created by /etc/init.d/binos

gen_require(
    type initrc_t;
    type init_t;
files_tmp_filetrans([ initrc_t init_t ], polaris_boot_tmp_t, file, "bootup_timestamp")

type polaris_boot_file_t;
files_type(polaris_boot_file_t)
polaris_pfile_type(polaris_boot_file_t)
gen_require(
    type polaris_disk_bootflash_t;
)
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "reload_info")
filetrans_pattern(domain, polaris_disk_bootflash_t, polaris_boot_file_t, file, "stack_reload_info")

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#

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmportsfetch.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisftm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvdaemon.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvttm.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris Common Policy Rules.</summary>

########################################################################
# Polaris common
########################################################################
interface('polaris_process_domain_confined',
    gen_require('type unconfined_service_t;
    )
    init_daemon_domain($1, $2)

    # polaris process now started by pman, which still runs
    # under unconfined label
    type_transition unconfined_service_t $2:process $1;
    allow unconfined_service_t $1:process transition;
    allow $1 unconfined_service_t:process sigchld;

    polaris_pman_entry($1, $2)

    gen_require('attribute polaris_domain;
        attribute polaris_exec_domain;
        attribute polaris_extended_domain;
    )
typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

    # allow all process to check whether kernel ksm is enabled
    polaris_ksm_run_check($1)
')


### <summary>
### Create a domain for long running Polaris processes. Note
### depending on policy build setting it could be confined or
### not confined
## <summary>
## Domain allowed access.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>

# interface('polaris_process_domain',

# the default is to confine all domains
polaris_process_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isn't much else to do but leave it confined. if the domain isn't in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
# ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
confined_domain($1), $1, '','
  `polaris_domain_maybe_unconfined($1)')
')

# Create a domain for utility Polaris processes in
# confined mode.
# <summary>
# Domain allowed access.
# </summary>

# <param name="domain">
# Domain allowed access.
# </param>

# <param name="entry_point">
##Type of the program to be used as an entry point to this domain.
##</param>

# interface('polaris_utility_domain_confined',
domain_type($1)
domain_entry_file($1, $2)
role system_r types $1;

gen_require(
    attribute polaris_domain;
    attribute polaris_exec_domain;
    attribute polaris_extended_domain;
)
'typeattribute $1 polaris_domain, polaris_extended_domain;
typeattribute $2 polaris_exec_domain;

# allow all process to check whether kernel ksm is enabled
polaris_ksm_run_check($1)
')

#########################################################################
## <summary>
## Create a domain for utility Polaris processes. Note
## depending on policy build setting it could be confined or
## not confined
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
## <param name="entry_point">
## Type of the program to be used as an entry point to this domain.
## </param>
#
interface(`polaris_utility_domain',
# the default is to confine all domains
polaris_utility_domain_confined($1, $2)

#
# if the domain is in the permissive map, then set it to be confined
# permissive. if the domain is in the confined map, then there really
# isnt much else to do but leave it confined. if the domain isnt in
# the permissive or confined maps then determine if the domain should
# be unconfined.
#
ifelse(permissive_domain($1), $1, `polaris_permissive_domain_setup($1)',
    confined_domain($1),   $1, `',
        `polaris_domain_maybe_unconfined($1)')
')
### <summary>
## Creates types and rules for a basic polaris process domain.
### </summary>

```c
#template(`polaris_process_domain_template',
    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_process_domain(polaris_$1_t, polaris_$1_exec_t)
    ifdef(polaris_permissive,`
        permissive polaris_$1_t;
    ')
)
polaris_btrace_data_client_template($1)
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)
polaris_process_uswap_access(polaris_$1_t, $1, "$1")
')

### <summary>
## Creates types and rules for a basic polaris process domain.
## </summary>

```
polaris_maroon_data_client_template($1)
polaris_crft_data_client_template($1)
polaris_process_proc_kpageflags_template($1)

')

#########################################################
## <summary>
## Allow the specified domain to execute polaris domain
## process in the caller domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_exec',`
    gen_require(`
        attribute polaris_exec_domain;
    `)

    can_exec($1, polaris_exec_domain)
')

#########################################################
## <summary>
## Allow the specified domain to read polaris domain
## executable file. I.e to get information from executables
## like binary trace info, trace key etc
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_read_exec_domain',`
    gen_require(`
        attribute polaris_exec_domain;
        type bin_t;
    `)

    read_files_pattern($1, bin_t, polaris_exec_domain)
')

#########################################################
## Allow the specified domain to receive signals from any polaris process.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
# interface('polaris_receive_signal_from_domain',
#   gen_require(
#       attribute polaris_domain;
# )
#
# allow polaris_domain $1:process signal_perms;
# )

###################################################################
## Systemd-tmpfiles utility creates an object in the tmp directories, with a private type using a type transition. Note rules to create files and directories which are performed by systemd-tmpfiles reside in /lib/tmpfiles.d/ directory. And polaris specific rules are in binos.conf file. Note systemd-tmpfiles utility would use label from file_contexts to restore proper label. I.e the same effect could be achived by placing proper .fc expression.
## </summary>
## <param name="private type">
##  The type of the object to be created.
## </param>
## <param name="object">
##  The object class of the object being created.
## </param>
## <param name="name">
##  The name of the object being created.
## </param>
#
# interface('polaris_systemd_tmpfiles_tmp_filetrans',
#   gen_require(
#       type systemd_tmpfiles_t;
# )
files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)

/**
 * Implementation notes:
 *
 * wants to read /proc/pid/ns/net but gets denial because our 3.10 kernel
 * does not support nsfs yet, so /proc/pid/ns/net is marked as proc_t instead
 * of be nsfs_t. For now allow read access to proc_t through
 * kernel_system_state_reader attribute. Try to drop it in latter kernels
 */

type=AVC msg=audit(1479574148.450:70): avc: denied { open } for
path="net:[4026531957]" dev="proc" ino=4026531957 scontext=system_u:system_r:polaris_smd_t:s0
tcontext=system_u:object_r:proc_t:s0 tclass=file

in 4.4 /proc/pid/ns/net inode is under nsfs_t, polaris_smd_t needs to
open, getattr, and read from it

/**
 * Domain allowed access.
 */

interface('polaris_namespace_set_netns_with_etc',
   kernel_read_system_state($1)
   fs_read_nsfs_files($1)
   gen_require(
      type ifconfig_var_run_t;
   ')
   list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
'}

/**
 * All namespace related operation to switch name space
 * is covered under this macro.
 */

interface('polaris_namespace_set_netns_with_etc',
   kernel_read_system_state($1)
   fs_read_nsfs_files($1)
   gen_require(
      type ifconfig_var_run_t;
   ')
   list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
'}
files_mounion_isid($1)
files_mounion_rootfs($1)
dev_mount_sysfs_fs($1)
dev_unmount_sysfs_fs($1)
sysnet_read_config($1)
sysnet_write_config($1)
sysnet_manage_config_dirs($1)
files_rw_etc_files($1)
allow $1 net_conf_t:file mounion;
allow $1 etc_t:file mounion;
allow $1 self:capability sys_chroot;
')

###################################################################
## <summary>
##  process can execute libeiutil build_config_directory function
##
## Implementation notes:
##  build_config_directory function from mgmt/libeiutil/src/eiutil.c
## calls glibc nftw function, which effectively walks whole file tree
## and execute given call back. While function is executed it needs
## access to all files and directories attributes also it wants to
## search all directories. But we will not grant search access to
## security_file_type, instead we will dontaudit those. Anyway no
## relevant config file should be under security_file_type directory.
##</summary>
## <param name="domain">
##  Domain allowed access.
##</param>
#
interface('polaris_libeiutil_build_config_directory',
    files_getattr_all_files($1)
    files_getattr_all_dirs($1)
    files_read_all_symlinks($1)

    files_list_non_security($1)
    files_dontaudit_list_security_dirs($1)
')

###################################################################
## <summary>
##  Allow the specified domain to read write from i2c device.
##</summary>
## <param name="domain">
##  Domain allowed access.
##
interface('polaris_i2c_use',`
    gen_require(`
        type device_t;
        type polaris_i2c_device_t;
    `)
)
    rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
`

interface('polaris_remap_mem_dev_use',`
    gen_require(`
        type device_t;
        type polaris_remap_mem_device_t;
    `)
)
    write_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
    read_chr_files_pattern($1, device_t, polaris_remap_mem_device_t)
    allow $1 polaris_remap_mem_device_t:chr_file map;
    `)

interface('polaris_firmware_read',`
    gen_require(`
        type polaris_firmware_t;
    `)
)
    read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
# /firmware/* are link files, allow to follow symbolic link
allow $1 polaris_firmware_t:lnk_file read;
allow $1 polaris_firmware_t:dir read;
}

######################################
## <summary>
##      Allow the specified domain to manage firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_firmware_manage',
    gen_require(
        type polaris_firmware_t;
    ')

manage_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
manage_lnk_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
manage_dirs_pattern($1, polaris_firmware_t,  polaris_firmware_t)
')

######################################
## <summary>
##      Allow the specified domain to getattr of firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_firmware_getattr',
    gen_require(
        type polaris_firmware_t;
    ')

getattr_files_pattern($1, polaris_firmware_t,  polaris_firmware_t)
')

######################################
## <summary>
##      Allow the specified domain to map of firmware files
## </summary>
## <param name="domain">
##
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_firmware_map',
  gen_require('  
       type polaris_firmware_t;
  ')

read_files_pattern($1, polaris_firmware_t, polaris_firmware_t)
  allow $1 polaris_firmware_t:file map;
')

######################################
## <summary>
## Allow the specified domain to write relocations into text segment, deals
## with icc broken relocations.
##
## LOOK AT ME:
## Basically it deals with denials like this:
## type=AVC msg=audit(1475815369.598:3): avc: denied  { execmod } for pid=4929 comm="cman_fp"
## path="/tmp/sw/mount/csr1000v-mono-universalk9.2016-10-06_20.15_kamensky.SSA.pkg/usr/cpp/lib64/libcpp_client_ha_oor.so" dev="loop0" ino=7683
## scontext=system_u:system_r:unconfined_service_t:s0 tcontext=system_u:object_r:lib_t:s0 tclass=file
## It happens because icc generates code with relocations in text segment and
## run-time linker is dealing with it by doing mprotect(WRITE), relocatings,
## mprotect(NO WRITE). Remove once icc compiled is fixed
##
## </summary>
## <param name="domain">##
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_icc_broken_relocations',
  gen_require('  
       type lib_t;
  ')

  allow $1 lib_t:file execmod;
')

######################################
## <summary>
## Allow the specified domain to work with /dev/mem
##
##</summary>
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works with /dev/mem directly
##</summary>
##<param name="domain">
## Domain allowed access.
##</summary>
##</param>
#
interface(`polaris_dev_mem_use`,
  dev_read_raw_memory($1)
  dev_write_raw_memory($1)
  allow $1 self:capability sys_rawio;
  gen_require(
    type memory_device_t;
  ')
  allow $1 memory_device_t:chr_file map;
')

######################################
## <summary>
## Append to /tmp/etc file. First usage to update xinetd.conf files.
##</summary>
##<param name="domain">
## Domain allowed access.
##</summary>
##</param>
#
interface(`polaris_etc_append`,
gen_require(`
type polaris_etc_t;
')
  append_files_pattern($1, polaris_etc_t, polaris_etc_t)
')

######################################
## <summary>
## Search /tmp/etc directory
##</summary>
##<param name="domain">
## Domain allowed access.
##</summary>
##</param>
#
interface(`polaris_etc_search`,

gen_require(
    type polaris_etc_t;
    
) search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)
)

########################################################################
## <summary>
## List the contents of /etc directories.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_etc_list',
    gen_require(' 
    type polaris_etc_t;
    ')

allow $1 polaris_etc_t:dir list_dir_perms;
')

########################################################################
## <summary>
## Allow domain to attach to TUN devices created by ifconfig_t subject.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('ifconfig_attach_tun_iface',
    gen_require(' 
    type ifconfig_t;
    ')

allow $1 ifconfig_t:tun_socket relabelfrom;
allow $1 self:tun_socket relabelto;
')

########################################################################
## Perms used by pidof
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('pidof_use',`
  # FIXME or fix labeling
  # /sys/devices/system/cpu/online should be labeled cpu_online_t
  # but for some reason this did not happen. grant perms for both
  dev_read_sysfs($1)
  dev_read_cpu_online($1)
  # /proc scan
  domain_read_all_domains_state($1)
  kernel_list_proc($1)
  `)

#----------------------------------------------------------------------------
## <summary>
## Script can execute errmsg function from
## binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
## access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_script_errmsg_use',`
  # send to syslog (journal), iosd outputs to console if up
  logging_send_syslog_msg($1)
  # check if iosd is up and find its pid and if ttyS0 is opened
  pidof_use($1)
  # if FDs dont have ttyS0 it sends to console itself
  term_use_unallocated_ttys($1)
  `)

#----------------------------------------------------------------------------
## <summary>
## Allow the specified domain to read ebf (explicit
## bindind) files
## </summary>
## <param name="domain">
## </param>
## Domain allowed access.
##
#
interface('polaris_ebf_map',
    gen_require('type polaris_ebf_t;
    ')

read_files_pattern($1, polaris_ebf_t, polaris_ebf_t)
allow $1 polaris_ebf_t:file map;
')

##########################################################################
## <summary>
## Allow the specified domain to execute show_version command
## for given executable label
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <param name="subject_exec">
## Domain of executable that version can be checked
## </param>
#
interface('polaris_show_version',
    read_files_pattern($1, $2, $2)
    allow $1 $2:file map;
')

##########################################################################
## <summary>
## Configure the polaris domain as permissive
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_permissive_domain_setup',
    gen_require('
type $1;
')

permissive $1;
')

#########################################################################
## <summary>
## Creates types and rules for process access to uswap feature.
## Ability to create file/folder under /bootflash/USWAP/"FRU", and
## map file.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="stem">
## <summary>
## Stem for the object label. Name is contructed as
## polaris_"stem"_uswap_files_t. It should be the short
## form of the process name.
## E.g., for IOSd polaris_iosd_uswap_files_t.
## </summary>
## </param>
## <param name="name">
## <summary>
## The name of the object being created.
## Name of the folder created by the process for
## creating the uswap files.
## </summary>
## </param>
#
#template('polaris_process_uswap_access',
   gen_require(
      type polaris_uswap_files_t;
   )
   type polaris_$2_uswap_files_t;
   files_type(polaris_$2_uswap_files_t)
polaris_pfile_type(polaris_$2_uswap_files_t)

   filetrans_pattern($1, polaris_uswap_files_t, polaris_$2_uswap_files_t, {file dir})
   manage_dirs_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
   manage_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
   manage_lnk_files_pattern($1, polaris_$2_uswap_files_t, polaris_$2_uswap_files_t)
   allow $1 polaris_$2_uswap_files_t:file map;
# allow access to pvp to clean-up the process related uswap file/folder

gen_require(
    type polaris_pvp_t;
)  
allow polaris_pvp_t polaris_$2_uswap_files_t:dir { read remove_name rmdir write };  
allow polaris_pvp_t polaris_$2_uswap_files_t:file unlink;
)

###############################################################################
## <summary>
##      Allow process access to to access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
##      <summary>
##      Stem for the domain. Name is constructed as polaris_stem_t
##      </summary>
## </param>
#
#template('polaris_process_proc_kpageflags_template',`
   gen_require(
      type proc_t;
   )  
   allow polaris_$1_t proc_t:file { open read };
   )

###############################################################################
## <summary>
##      transition context of fman(rp/fp) created iptbl tmp files related to acl mgmt.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
#interface('polaris_fman_acl_iptbl_tmp_file',`
   gen_require(
      type polaris_iptbl_tmp_t;
   )  
   files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v4")  
   files_tmp_filetrans($1, polaris_iptbl_tmp_t, file, "iptbl.v6")  
   manage_files_pattern($1, polaris_iptbl_tmp_t, polaris_iptbl_tmp_t)  
   )

###############################################################################
## <summary>
## Manage files/folders in /tmp/rsync_log_dir.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_manage_rsync_tmplog_dir',
  gen_require(`
    type polaris_rsync_tmp_t;
  ')
  manage_files_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
  manage_dirs_pattern($1, polaris_rsync_tmp_t, polaris_rsync_tmp_t)
')

####################################################################
## <summary>
## Manage cerr shared memory /dev/shm/cerrno_dll.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_cerr shm manage',
  gen_require(`
    type tmpfs_t;
    type polaris_cerr shm_t;
  ')
  fs_getattr_tmpfs($1)
  manage_files_pattern($1, tmpfs_t, polaris_cerr shm_t)
  allow $1 polaris_cerr shm_t:file map;
  fs_tmpfs_filetrans($1, polaris_cerr shm_t, file, "cerrno_dll")
')

####################################################################
## <summary>
## Manage shared memory for vrf - /dev/shm/vrf shm.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_vrf_shm_manage',
    gen_require(
        type tmpfs_t;
        type polaris_vrf_shm_t;
    )
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_vrf_shm_t)
    allow $1 polaris_vrf_shm_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_vrf_shm_t, file, "vrf_shm")
)

#######################################
## <summary>
##      On-demand creation of vrf-based netns using "ip netns".
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_vrf_netns_manage',
polaris_vrf_shm_manage($1)
    kernel_rw_net_sysctls($1)
polaris_lfts_dev_use($1)
sysnet_exec_ifconfig($1)
sysnet_manage_ifconfig_run($1)
    gen_require(
        type ifconfig_var_run_t;
    )
    allow $1 ifconfig_var_run_t:file { create mounton open read };
    allow $1 ifconfig_var_run_t:dir mounton;
    gen_require(
        type polaris_ip_linux_port_var_t;
    )
    read_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
    getattr_files_pattern($1, var_t, polaris_ip_linux_port_var_t)
)

#######################################
## <summary>
##	Allow read/write of network state directory files
## </summary>
## <param name="domain">
##	<summary>
##	</summary>
##<summary>
##</param>
## Domain allowed access.
## </summary>
## </param>
#

interface('polaris_kernel_rw_network_state_files',
    gen_require(
        type proc_net_t;
    ')
)

rw_files_pattern($1, proc_net_t, proc_net_t)
' )
#

######################################
## <summary>
##      Allow the specified domain to send signals to
##      Binos shell
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#

interface('polaris_send_signal_to_shell',
    gen_require(
        type polaris_shell_t;
    ')
)

    allow $1 polaris_shell_t:process signal_perms;
')

#######################################
## <summary>
##	Execute curl in the curl domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#

interface('polaris_curl_domtrans',
    gen_require(
        type polaris_curl_t, polaris_curl_exec_t;
    ')
)

corecmd_search_bin($1)
domtrans_pattern($1, polaris_curl_exec_t, polaris_curl_t)
')

########################################################################
## <summary>
## Manage files and directories in /tmp directory with rsync_tmp_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('rsync_tmp_manage',
  gen_require(
    type rsync_tmp_t;
  )
  manage_dirs_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_lnk_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
  manage_fifo_files_pattern($1, rsync_tmp_t, rsync_tmp_t)
')

########################################################################
## Allow the specified domain to read /tmp/ldmw_envelope file
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_ldmw_envelope_read',
  gen_require(
    type polaris_ldmw_envelope_tmp_t;
  )
  read_files_pattern($1, polaris_ldmw_envelope_tmp_t, polaris_ldmw_envelope_tmp_t)
')

########################################################################
## This is copied from polarisngwc.if since other platforms may also
## read/write /sys/devices files. In addition to ngwc, tsn requires it.
## Write into /sys/devices/virtual/misc/ggpio/gpio_out_assert sysfs files.
## or /sys/devices/platform/cpn-110-master/cpn-110-master sysfs
## <param name="domain">
<summary>
Domain allowed access.
</summary>

interface(`polaris_ggpio_dev_read_write',
  gen_require(`
    type polaris_sysfs_ggpio_t;
  ')
  read_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
  write_files_pattern($1, polaris_sysfs_ggpio_t, polaris_sysfs_ggpio_t)
')

#######################################
<summary>
Manage files under /bootflash/certs , cert files for AP
</summary>
<param name="domain">
<summary>
Domain allowed access.
</summary>

interface(`polaris_wlc_ap_cert_manage',
  gen_require(`
    type polaris_ap_cert_file_t;
  ')
  manage_files_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
  manage_dirs_pattern($1, polaris_ap_cert_file_t, polaris_ap_cert_file_t)
')

#######################################
<summary>
Manage SERDES key directory and files
SERDES library stores info in /tmp/serdes_asic_key_dir/*
</summary>
<param name="domain">
<summary>
Domain allowed access.
</summary>

interface(`polaris_serdes_asic_key_tmp_manage',
  gen_require(`
    type polaris_serdes_asic_key_tmp_t;
  ')
  manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
  manage_dirs_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)
')
files_tmp_filetrans($1, polaris_serdes_asic_key_tmp_t, {dir file}, "serdes_asic_key_dir")

manage_dirs_pattern($1, {tmp_t polaris_serdes_asic_key_tmp_t}, polaris_serdes_asic_key_tmp_t)
manage_files_pattern($1, polaris_serdes_asic_key_tmp_t, polaris_serdes_asic_key_tmp_t)

#######################################
## <summary>
##      Manage polaris_tech_support_tmp_t in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_tech_support_tmp_read',
   gen_require(
      type polaris_tech_support_tmp_t;
   )
   read_files_pattern($1, polaris_tech_support_tmp_t, polaris_tech_support_tmp_t)
)

#######################################
## <summary>
##      Getattr of any file under /proc/*/fd/*. Typically
## run by lsof.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
interface(`polaris_proc_fd_all_getattr',
   domain_read_all_domains_state($1)
   files_getattr_all_files($1)
   files_getattr_all_dirs($1)
   files_getattr_all.Sockets($1)
   files_getattr_all_pipes($1)
   files_getattr_all_chr_files($1)
   files_getattr_all_symlinks($1)
   files_read_all_dirs_except($1)
   dev_getattr_all_chr_files($1)
   dev_getattr_all_blk_files($1)
   dev_getattr_mtrr_dev($1)

   # misc socket and fifo files got created under label of its process domain
# and since domain labes are not in file_type attribute, need special
# permission
gen_require('attribute domain;')
allow $1 domain:{socket socket_class_set fifo_file}getattr;
# access sysctl_rpc_t
kernel_read_rpc_sysctls($1)
')

#################################################################
##<summary>
## Manage files and directories sysfs, This should only be used
## if the interface needs sysfs_t create access. Otherwise please use
## dev_rw_sysfs
##</summary>
## <param name="domain">
## Domain allowed access.
##</param>
## <rolebase/>
#
# interface('polaris_sysfs_manage',
# gen_require('type sysfs_t;')
# manage_files_pattern($1, sysfs_t, sysfs_t)
')

#################################################################
##<summary>
## Check access to the init/systemd executable.
##</summary>
## <param name="domain">
## Domain allowed access.
##</param>
#
# interface('polaris_init_access_check',
# gen_require('type init_exec_t;')
# init_access_check($1)
allow $1 init_exec_t:file {open read};
allow $1 init_exec_t:lnk_file read_lnk_file_perms;
')
### <summary>
### Manage polaris_manage_rommon_info in /tmp.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

interface(`polaris_manage_rommon_info',``
gen_require(`
  type polaris_rommon_info_tmp_t;
')
manage_files_pattern($1, polaris_rommon_info_tmp_t, polaris_rommon_info_tmp_t)
')

### <summary>
### Allow the specified domain to manage tamlib debug file /bootflash/tamlib_dbg_log
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

#
# interface(`polaris_tamlib_dbg_file_manage',``
gen_require(`
  type polaris_tamlib_dbg_file_t;
')
filetrans_pattern($1, polaris_disk_bootflash_t, polaris_tamlib_dbg_file_t, file, "tamlib_dbg_log")
manage_files_pattern($1, polaris_tamlib_dbg_file_t, polaris_tamlib_dbg_file_t)
')

### <summary>
### Allow access to /dev/ddr
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>

#
# interface(`polaris_ddr_dev_use',``
gen_require(`
  type device_t;
type polaris_ddr_device_t;
)
write_chr_files_pattern($1, device_t, polaris_ddr_device_t)
read_chr_files_pattern($1, device_t, polaris_ddr_device_t)
"

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscommon.if
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#
# July 2017, Victor Kamensky
#
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#

### <summary>Polaris tams_rp Policy Rules.</summary>


###################################################################
### <summary>
### Allow polaris_tams_rp_t unix stream socket connect
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_tams_rp_socket_connect',`
gen_require(`
    type polaris_tams_rp_t;
  `)
    allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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#

# polariswncd file contexts place holder
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.fc
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# # March 2017, Victor Kamensky # # Copyright (c) 2016-2019 by Cisco Systems, Inc. # All rights reserved #

# /harddisk /harddisk -> /misc/scratch
/harddisk gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/misc/scratch gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

/usb0 gen_context(system_u:object_r:removable_t,s0)
/usb1 gen_context(system_u:object_r:removable_t,s0)
/misc/usb0 gen_context(system_u:object_r:removable_t,s0)
/misc/usb1 gen_context(system_u:object_r:removable_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.fc
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# # July 2017, Victor Kamensky # # Copyright (c) 2017-2019 by Cisco Systems, Inc. # All rights reserved #

tmp/tam_cfg_done(/.*)? gen_context(system_u:object_r:polaris_tam_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.fc
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## <summary>Polaris omp Policy Rules.</summary>
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#

## <summary>Polaris TDLDB Policy Rules.</summary>

### Polaris tdlcb (infra/tdllib)

#### Make specified domain as one of tdlcb types.

```
interface('tdlcb_type',
    gen_require(''
        attribute $1 tdlcb;
    ')
    typeattribute $1 tdlcb;
files_type($1)
')
```

### List directories in /tmp/[rp][fp][cc]/tdldb directories.

```
interface('tdlcb_list_dirs',
    gen_require(''
        attribute $1 tdlcb;
    ')
    typeattribute $1 tdlcb;
files_type($1)
')
```
type polaris_tdldb_t;

')

    list_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)

')

#######################################################################

## <summary>
## Use tdldb database files in /tmp/[rp|fp|cc]/tdldb
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="database_label">
## Database file label.
## </param>
## <param name="object">
## Database file name. Also used to derive lock file name.
## </param>
#
# interface("polaris_tdldb_use",
# gen_require(
# type polaris_tdldb_t;
#     type tmp_t;
#
# )
# manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
# manage_files_pattern($1, polaris_tdldb_t, $2)
# allow $1 $2:file map;
# allow $1 polaris_tdldb_t:file lock;
# type_transition $1 polaris_tdldb_t : file $2 "$3";
# type_transition $1 polaris_tdldb_t : file $2 "$3.lock";
#
# manage /var/tmp/tdldb_ene_fifo.0xYYYYY files - it seems there is
# no way to assign separate label to them
# manage_fifo_files_pattern($1, tmp_t, tmp_t)
#
# tdllib_database_handle_open_internal through libuuid calls
# uuid_generate_time_generic, which needs access to udp socket
# once it reaches get_node_id function
# allow $1 self:udp_socket { create ioctl }
#
#)

#######################################################################
## <summary>
## Setup tdldb database persistent files in
##   /tmp/[rp|fp|cc]/tdldb/persist-config
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
## <param name="database_label">
##     Database file label.
## </param>
## <param name="object">
##     Database file name. Also used to derive lock file name.
## </param>
#
# interface('polaris_tmp_tdldb_persist_setup',`
  gen_require(`
  type polaris_tdldb_t;
  type polaris_tdldb_persist_t;
  `)
  filetrans_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t, dir, "persistent-config")
  # allow creation of /tmp/rp/tdldb/persistent-config
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_persist_t)
  # Manage files inside of its own polaris_tdldb_persist_t directories
  manage_files_pattern($1, polaris_tdldb_persist_t, polaris_tdldb_persist_t)
  `)

################################
## Manage tdldb directories
## <param name="domain">
##     The domain serving as polaris_tdldb type
## </param>
#
# interface('polaris_tdldb_manage_dirs',`
  gen_require(`
  type polaris_tdldb_t;
  `)
  manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
  `)
use polaris_dir_db_tdldb_t database.

Domain allowed access.

interface(polaris_db_tdldb_dir_use,
    gen_require(
        type polaris_dir_db_tdldb_t;
    )

    polaris_tdldb_use($1, polaris_dir_db_tdldb_t, DB_DIR)
    )

policy_module(polariswncd, 1.0);

polaris_btrace_data_manage(polaris_wncd_t)
polaris_crft_data_manage(polaris_wncd_t)
polaris_chasfs_manage(polaris_wncd_t)
polaris_tdlresolve_read(polaris_wncd_t)
polaris_tdldb_list_dirs(polaris_wncd_t)
polaris_cpld_read(polaris_wncd_t)
polaris_lua_read(polaris_wncd_t)
polaris_flashlib_read(polaris_wncd_t)
polaris_ripc_sman_ui_serv_connect(polaris_wncd_t)
polaris_db_tldlb_dir_use(polaris_wncd_t)

# wncd need setrlimit to change limit of resource
allow polaris_wncd_t self:process setrlimit;
allow polaris_wncd_t self:capability sys_resource;

# allow tcp connection from http port
allow polaris_wncd_t self:capability net_bind_service;
corenet_tcp_bind_http_port(polaris_wncd_t)

# allow udp for dhcpcd
corenet_udp_bind_dhcpd_port(polaris_wncd_t)
corenet_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg }

# allow AF_PACKET
allow polaris_wncd_t self:capability net_raw;
allow polaris_wncd_t self:packet_socket { create_socket_perms recv_msg send_msg }

# required in function ewlc_capwap_dgram_srvr_state_update()
allow polaris_wncd_t self:rawip_socket { create_socket_perms setopt ioctl }
corenet_raw_bind_generic_node(polaris_wncd_t)

gen_require(`
  type port_t;
')
allow polaris_wncd_t port_t:rawip_socket name_bind;

# allow to read /etc/passwd
auth_use_nsswitch(polaris_wncd_t)

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_wncd_t)
polaris_socketat_nsfs_read(polaris_wncd_t)

# each instance of wncd has a devshell support
corenet_tcp_bind_polaris_wncd_devshell_port(polaris_wncd_t)

# extra instances of wncd do set up cyan database for given elastic number
polaris_dyncfg_setup(polaris_wncd_t)

allow polaris_wncd_t self:capability dac_override;

# wncd does ionotify for /bootflash/apple_device_map.xml file in
# wsa_notif_register_filepath function
polaris_bootflash_read(polaris_wncd_t)
polaris_persistent_watch(polaris_wncd_t)
# manage pem certificates on /bootflash
polaris_persistent_manage(polaris_wncd_t)

# for /dev/shm/cerrno_dll
polaris_cerr_shm_manage(polaris_wncd_t)

# For ewlc, wncd and wncmgrd needs access to files under /mnt/images/...these
# are related to AccessPoint images

type polaris_wlc_ap_images_t;
files_type(polaris_wlc_ap_images_t)

# wncd calls ewlc_get_ap_sw_version() to open/read
# /tmp/sw/rp/0/0/rp_wlc/mount/mnt/images/ap.pri/version.info
# call-chain: main -> ewlc_app_context_init -> wncd_evlib_app_init_cb ->
# ewlc_capwapac_lib_init -> capwapac_init_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncd_t)

# wncd works with AF_NETLINK NLMSG_APP_SIP ewlc_sip_netlink_sock_init
allow polaris_wncd_t self:netlink_socket create_socket_perms;

logging_send_syslog_msg(polaris_wncd_t)

# binds to mdns port from mdns_ipv4_socket_init function
corenets_udpBind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenets_udpBind_polaris_capwap_ctr_port(polaris_wncd_t)
corenets_udpBind_polaris_capwap_data_port(polaris_wncd_t)

#allow read/write/mmap access to awips file
gen_require(''
type polaris_awips_signature_file_t;
')
allow polaris_wncd_t polaris_awips_signature_file_t:file { map read open getattr unlink};

# allow read / write / unlink access to /bootflash/certs
polaris_wlc_ap_cert_manage(polaris_wncd_t)

# wncd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenets_tcpConnect_lisp_cons_control_port(polaris_wncd_t)

# binds to mdns bcp port from mdns bcp function
corenet_udp_bind_mDNS_bcp_port(polaris_wncd_t)

#DB persistence
polaris_tlddbpersistence_setup(polaris_wncd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.te
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#
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#
#
## <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

########################################
## <summary>
##     Connect to and send messages to /tmp/idope_svr and
## /tmp/shfwd_svr unix datagram sockets.
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_fed_debug_sock_write',
  gen_require(
    type polaris_fed_debug_sock_t;
    type polaris_ngwc_fed_debug_mgr_t;
    type tmp_t;
    ')
)

allow $1 self:unix_stream_socket {create_socket_perms};
allow $1 polaris_ngwc_fed_debug_mgr_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, tmp_t, polaris_fed_debug_sock_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfeddebug.if
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#
# March 2017, Victor Kamensky
#
policy_module(polarispsd, 1.0);

gen_require(`
   type polaris_psd_t;
`)

polaris_btrace_data_manage(polaris_psd_t)
polaris_crft_data_manage(polaris_psd_t)
polaris_chasfs_manage(polaris_psd_t)
polaris_tdlresolve_read(polaris_psd_t)
polaris_tdlldb_list_dirs(polaris_psd_t)
polaris_cpld_read(polaris_psd_t)
polaris_flashlib_read(polaris_psd_t)

polaris_ripc_sman_ui_serv_connect(polaris_psd_t)
polaris_db_tdlldb_dir_use(polaris_psd_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psd_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psd_t)

# psd wants to run /usr/binos/bin/cfgwr command
corecmd_exec_bin(polaris_psd_t)
corecmd_exec_shell(polaris_psd_t)

# provide objstore access
polaris_disk_objstore_read(polaris_psd_t)

# work with /tmp files (/tmp/sh-thd-*
  type polaris_psd_tmp_t;
files_tmp_file(polaris_psd_tmp_t)
files_tmp_filetrans(polaris_psd_t, polaris_psd_tmp_t, file)
manage_files_pattern(polaris_psd_t, polaris_psd_tmp_t, polaris_psd_tmp_t)
polaris_obfl_data_read(polaris_psd_t)

allow polaris_psd_t self:capability { fsetid };

allow polaris_psd_t self:capability { dac_override chown };
allow polaris_psd_t self:netlink_route_socket rw_netlink_socket_perms;
logging_send_syslog_msg(polaris_psd_t)

#if psd need detect which terminal to use as console, need read permission to ttyS*
#if psd need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
#if, generate /boot/grub/menu.list
#if read access to bootflash for bin file loading
ifdef(‘vxe_family’,
term_use_unallocated_ttys(polaris_psd_t)
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
’)
ifdef(‘wlc_family’,
term_use_unallocated_ttys(polaris_psd_t)
bootloader_rw_config(polaris_psd_t)
polaris_disk_varied_read(polaris_psd_t)
’)
ifdef(‘vwlc_platform’,
polaris_legacy_grub_manage(polaris_psd_t)
polaris_bootflash_read(polaris_psd_t)
’)
polaris_disk_csl_manage(polaris_psd_t)

fs_read_nsfs_files(polaris_psd_t)

polaris_dyncfg_tmp_read(polaris_psd_t)

polaris_read_packages_conf(polaris_psd_t)

# handling /tmp/restconf
type polaris_restconf_t;
files_tmp_file(polaris_restconf_t)

files_tmp_filetrans(polaris_psd_t, polaris_restconf_t, dir, "restconf")
polaris_restconf_manage(polaris_psd_t)

# handling /tmp/.ncsshd_authorized_keys
type polaris_ncsshd_keys_t;
files_tmp_file(polaris_ncsshd_keys_t);

files_tmp_filetrans(polaris_psd_t, polaris_ncsshd_keys_t, dir, ".ncsshd_authorized_keys")
polaris_ncsshd_keys_manage(polaris_psd_t)

polaris_tmp_tddlb_persist_setup(polaris_psd_t)
polaris_tddlb_persist_setup(polaris_psd_t)
# write mem updates the grub config files
optional_policy('polaris_grubcfg_manage(polaris_psd_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.te
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#

### <summary>Polaris fpm Policy Rules.</summary>

########################################################################
### <summary>
### Write fpm /var/run socket file
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_fpm_var_sock_write',
    gen_require(
        type polaris_fpm_t;
        type polaris_fpm_var_run_t;
        type var_run_t;
    )
    write_sock_files_pattern($1, var_run_t, polaris_fpm_var_run_t)
    allow $1 polaris_fpm_t:unix_stream_socket { connectto);
')

########################################################################
### <summary>
### Manage mqipc fpm2fmrp shared memory file in /dev/shm directory
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_fpm2fmrp_mqipc_use',
  gen_require(
    type polaris_fpm2fmrp_mqipc_t;
  
    polaris_mqipc_use($1, polaris_fpm2fmrp_mqipc_t)
  
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfpm.if
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#
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#

### <summary>Polaris Doppler Policy Rules.</summary>

### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
#
interface('polaris_dmammap_dev_use',
  gen_require(
    type device_t;
    type polaris_dmammap_device_t;
  
  )
  write_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
  read_chr_files_pattern($1, device_t, polaris_dmammap_device_t)
  allow $1 polaris_dmammap_device_t:chr_file map;
)

### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
interface('polaris_dplr_dev_use',
    gen_require(
        type device_t;
        type polaris_dplr_device_t;
    )
)
write_chr_files_pattern($1, device_t, polaris_dplr_device_t)
read_chr_files_pattern($1, device_t, polaris_dplr_device_t)
allow $1 polaris_dplr_device_t:chr_file map;
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/pvp.sh -- gen_context(system_u:object_r:polaris_pvp_exec_t,s0)
tmp/sw/rp/max_elastic_bays -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
tmp/iosd_memory_share -- gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)

/tmp/cc/0(/.*)?	gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/cc/*.pvp(/.*)?	gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/tf/pvp(/.*)?	gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/oir/sw_lic_service(/.*)?	gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/sw_csl_service(/.*)?	gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/oir/tp_(.*)/(.*)?	gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/tp/(.*)?	gen_context(system_u:object_r:polaris_pvp_tmp_t,s0)
/tmp/rp/pvp/sai_process(/.*)?	gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/tf/pvp/sai_process(/.*)?	gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/cc/*.pvp/sai_process(/.*)?	gen_context(system_u:object_r:polaris_pvp_sai_t,s0)
/tmp/rp/pvp/process_state(/.*)?	gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/tf/pvp/process_state(/.*)?	gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/cc/pvp/process_state(/.*)?	gen_context(system_u:object_r:polaris_process_state_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.fc
No license file was found, but licenses were detected in source scan.

policy_module(polariswlc, 1.0);

# hanet driver used by vwlc, is there better place for it?
type polaris_hanet_device_t;
dev_node(polaris_hanet_device_t)

gen_require(
    type polaris_wlc_ap_images_t;
type mnt_t;
    attribute polaris_extended_domain;
)

# transition when /mnt/images is created
filetrans_pattern(polaris_extended_domain, mnt_t, polaris_wlc_ap_images_t, dir, "images")

# epaN and epactrlN devices
type polaris_epa_device_t;
dev_node(polaris_epa_device_t)

# luna_fpgs device
type polaris_luna_mbfpga_device_t;
dev_node(polaris_luna_mbfpga_device_t)

# astro device
type polaris_astro_device_t;
dev_node(polaris_astro_device_t)

# cpp_il device
type polarisCpp_il_device_t;
dev_node(polarisCpp_il_device_t)

# oob_evfc device
type polaris_oob_evfc_device_t;
dev_node(polaris_oob_evfc_device_t)

# on vwlc all processes read grub_cisco_version in polaris_disk_varied_t
gen_require(
    attribute polaris_domain;
)
polaris_disk_varied_search(polaris_domain)

# /dev/sfp-ktr device
type polaris_sfp_katar_device_t;
dev_node(polaris_sfp_katar_device_t)

# handle /tmp/vxe_disk_XXX_YYY files
ifdef('vwlc_platform',
   gen_require(''
      type unconfined_service_t;
   ')
   polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v3")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_mbr_v4")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v1")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v2")
polaris_boot_tmp_filetrans(unconfined_service_t, file, "vxe_disk_gpt_v3")
polaris_boot_tmp_manage(unconfined_service_t)
')
type polaris_grubver_t;
polaris_pfile_type(polaris_grubver_t)

type polaris_grub_bios_t;
polaris_pfile_type(polaris_grub_bios_t)

# on vWLC, all processes read grubenv from EFI disk partition.
gen_require(''
   attribute polaris_domain;
')
polaris_vwlc_grub_efi_search(polaris_domain)

type polaris_vwlcinstall_info_t;
polaris_pfile_type(polaris_vwlcinstall_info_t)

gen_require(''
   type unconfined_service_t;
   type polaris_disk_varied_t;
')

# unconfined service create /boot/.install_info if does not exist yet
filetrans_pattern(unconfined_service_t, polaris_disk_varied_t, polaris_vwlcinstall_info_t, file, ".install_info")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.te
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/tmp/sw/boot/rmonbifo(/.*)?               gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrmonbifo.fc
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polarisbtlogger file contexts place holder

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policy_module(polarisnifmgr, 1.0);

gen_require(
    type polaris_nif_mgr_t;
')

polaris_ripc_sman_ui_serv_connect(polaris_nif_mgr_t)
polaris_btrace_data_manage(polaris_nif_mgr_t)
polaris_crft_data_manage(polaris_nif_mgr_t)
polaris_chasfs_manage(polaris_nif_mgr_t)
polaris_tdlresolve_read(polaris_nif_mgr_t)
polaris_tdlldb_list_dirs(polaris_nif_mgr_t)
polaris_cpld_read(polaris_nif_mgr_t)
polaris_lua_read(polaris_nif_mgr_t)
polaris_flashlib_read(polaris_nif_mgr_t)

#If romvar is not set, Set Rommon env varaible needs write permission
polaris_flashlib_write(polaris_nif_mgr_t)
logging_send_syslog_msg(polaris_nif_mgr_t)

# set out of band interface mac set_oobndif_mac
allow polaris_nif_mgr_t self:tcp_socket ioctl;

# communication between the nif manager and fed use directories under /tmp/sv
polaris_sv_tmp_use(polaris_nif_mgr_t)

# /dev/shm/sdm access
optional_policy(
    polaris_sdm_shm_manage(polaris_nif_mgr_t)
)

# open /dev/ttyS0 console in sco_sys_init_sw_params
term_use_unallocated_ttys(polaris_nif_mgr_t)

# allow create and write access to the /proc/*_sesa file

gen_require("
type polaris_proc_sesa_t;
")
polaris_proc_sesa_create_write(polaris_nif_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.te
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#
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#
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#
#
policy_module(polarisdmiopdatamgrd, 1.0);

gen_require("
    type polaris_dmi_opdatamgrd_t;
")

# allow to getgetattr of /proc file system
domain_read_all_domains_state(polaris_dmi_opdatamgrd_t)

# work with /var/log/dmi/ files
type polaris_dmi_var_log_t;
logging_log_file(polaris_dmi_var_log_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, polaris_dmi_var_log_t)
logging_log_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_var_log_t, dir, "dmi")

polaris_chasfs_manage(polaris_dmi_opdatamgrd_t)
polaris_btrace_data_manage(polaris_dmi_opdatamgrd_t)
polaris_cpld_read(polaris_dmi_opdatamgrd_t)
polaris_boot_tmp_read(polaris_dmi_opdatamgrd_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_dmi_opdatamgrd_t)

# this (opdatamgrd.sh) process is shell script need permission to execute shell
# and variety of small util commands under bin_t
corecmd_exec_shell(polaris_dmi_opdatamgrd_t)
corecmd_exec_bin(polaris_dmi_opdatamgrd_t)

# allow read of /etc/passwd
# passwd_file_t:{ file { getattribute open read };
auth_use_nsswitch(polaris_dmi_opdatamgrd_t)

# opdatamgrd.sh calls ps command
# ps needs access to /sys/devices/system/cpu/online
dev_read_sysfs(polaris_dmi_opdatamgrd_t)
# ps needs access to proc_t
kernel_read_system_state(polaris_dmi_opdatamgrd_t)

allow polaris_dmi_opdatamgrd_t self:capability { sys_resource dac_override };

# handling of /tmp/stream-parsers
type polaris_dmi_parser_t;
files_tmp_file(polaris_dmi_parser_t)
files_tmp_filetrans(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, dir, "stream-parsers")
manage_dirs_pattern(polaris_dmi_opdatamgrd_t, tmp_t, polaris_dmi_parser_t)
manage_files_pattern(polaris_dmi_opdatamgrd_t, polaris_dmi_parser_t, polaris_dmi_parser_t)
mount_domtrans(polaris_dmi_opdatamgrd_t)

# confd_cli runs under our label
allow polaris_dmi_opdatamgrd_t self:tcp_socket create_socket_perms;

# runs ps that wants to have access to containers files
optional_policy(`
polaris_disk_vman_dir_list(polaris_dmi_opdatamgrd_t)
`)
polaris_sandbox_file_dir_list(polaris_dmi_opdatamgrd_t)
polaris_sandbox_file_getattr(polaris_dmi_opdatamgrd_t)
# runs find to search all `parse.*` files
# find . -perm /111 -name parse.* -exec basename {} ;
# LOOK AT ME it seems that it does search on customer visible
directories, can and whether customer supposed to be
# able give parse.* files to dmi opdatamgrd, could it
# be exploited?
files_getattr_all_files(polaris_dmi_opdatamgrd_t)
files_getattr_all_dirs(polaris_dmi_opdatamgrd_t)

# access to /dev/pts/0
ssh_use_ptys(polaris_dmi_opdatamgrd_t)

directly work with to /dev/ttyS1
term_use_unallocated_ttys(polaris_dmi_opdatamgrd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/SELinux-tar/SELinux/polarisdmiopdatamgrd.te

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#
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#

## <summary>Polaris ngwc_fed Policy Rules.</summary>

########################################
## <summary>
##     Connect to and send messages to /tmp/dbgmn_log_sv unit
datagram socket.
## </summary>
## <param name="domain">
##     Domain allowed access.
## </param>
#
interface(`polaris_fed_sock_write',
    gen_require(`
        type polaris_fed_sock_t;
        type polaris_ngwc_fed_t;
        type tmp_t;
    `)
)

allow $l self:unix_stream_socket {create_socket_perms};
allow $l polaris_ngwc_fed_t:unix_stream_socket {connectto};
write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
')

########################################
## <summary>
##      Allow the specified domain able to read fed /tmp files.
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      File name in /tmp that the fed domain creates and other domains
##      access.
##      </summary>
## </param>
#
# interface('polaris_fed_tmp_files_read',
      gen_require(
            type polaris_fed_tmp_t;
      ')

read_files_pattern($1, polaris_fed_tmp_t, polaris_fed_tmp_t)
')

########################################
## <summary>
##      Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## </summary>
## <param name="domain">
##      <summary>
##      epc_ws_liaison and ngwc-fed pipe interaction.
##      </summary>
## </param>
#
# interface('polaris_fed shm_file_read',
      gen_require(
            type polaris_ngwc fed t;
      ')

allow $1 polaris ngwc fed t:shm { associate read unix_read unix_write write };
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#  
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#  
# polarismobilityd file contexts place holder  

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismobilityd.fc  

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#  

policy_module(polarisdmivtyserverutild, 1.0);

gen_require(  
    type polaris_dmi_vtyserverutild_t;
)

polaris_btrace_data_manage(polaris_dmi_vtyserverutild_t)  
polaris_chasfs_manage(polaris_dmi_vtyserverutild_t)  
polaris_tdlresolve_read(polaris_dmi_vtyserverutild_t)  
polaris_tdlldb_list_dirs(polaris_dmi_vtyserverutild_t)  
polaris_cpld_read(polaris_dmi_vtyserverutild_t)  
polaris_flashlib_read(polaris_dmi_vtyserverutild_t)

allow polaris_dmi_vtyserverutild_t self:socket { connect create read write };

type polaris_dmi_vtyserverutild_tmp_t;  
files_tmp_file(polaris_dmi_vtyserverutild_tmp_t)  
files_tmp_filenotses(polaris_dmi_vtyserverutild_t, polaris_dmi_vtyserverutild_tmp_t, fifo_file, ",.DMI_FIFO")  
manage_fifo_files_pattern(polaris_dmi_vtyserverutild_t,  
polaris_dmi_vtyserverutild_tmp_t,polaris_dmi_vtyserverutild_tmp_t)

logging_send_syslog_msg(polaris_dmi_vtyserverutild_t)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutild.te
No license file was found, but licenses were detected in source scan.

dnl

dnl April 2018, Victor Kamensky

dnl

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dnl
define(`mqipc_stem', `translit(patsubst($1, `-mqipc$', `'), `-', `_')')
define(`mqipc_label', `format(`polaris_%s_mqipc_t', mqipc_stem($1)))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc.m4
No license file was found, but licenses were detected in source scan.

#
# November 2020, Christine Hwang
#
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#

## <summary>Polaris Cabo GNSS Policy Rules.</summary>

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/ttyS1
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cabo_gnss_dev_use',`
     gen_require(`
         type device_t;
         type polaris_cabo_gnss_device_t;
     `)
     write_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
     read_chr_files_pattern($1, device_t, polaris_cabo_gnss_device_t)
     allow $1 polaris_cabo_gnss_device_t:chr_file map;
`
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.if
No license file was found, but licenses were detected in source scan.
policy_module(polaristservice, 1.0);

polaris_process_domain_template(tservice_telnet)

polaris_process_domain_template(tservice_ssh)

gen_require('  type inetd_exec_t, inetd_t;
')
domtrans_pattern(polaris_tservice_telnet_t, inetd_exec_t, inetd_t)

polaris_chasfs_manage(polaris_tservice_telnet_t)
polaris_btrace_data_manage(polaris_tservice_telnet_t)
polaris_cpld_read(polaris_tservice_telnet_t)
polaris_boot_tmp_read(polaris_tservice_telnet_t)
polaris_rmonbifo_tmp_read(polaris_tservice_telnet_t)

corecmd_exec_shell(polaris_tservice_telnet_t)
corecmd_exec_bin(polaris_tservice_telnet_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tservice_telnet_t)

dmidecode_domtrans(polaris_tservice_telnet_t)

allow polaris_tservice_telnet_t self:capability sys_resource;
kernl_read_system_state(polaris_tservice_telnet_t)

gen_require('  type initrc_exec_t, initrc_t;
')
domtrans_pattern(polaris_tservice_telnet_t, initrc_exec_t, initrc_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_tservice_telnet_t)

#/bin/sh /usr/binos/conf/mcp_chvrf.sh eobc /usr/sbin/xinetd -f
# /tmp/chassis/local/rp/chasfs/rp/0/0/etc/telnet/xinetd_telnetd.conf
polaris_chvrf_domtrans(polaris_tservice_telnet_t)

Found in path(s):
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#
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#
### <summary>Polaris WLC Platform Policy Rules.</summary>

```
# Work (read, write, ioctl) with /dev/hanet
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

interface('polaris_hanet_dev_use',
  gen_require(''
    type device_t;
    type polaris_hanet_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_hanet_device_t)
  read_chr_files_pattern($1, device_t, polaris_hanet_device_t)
')

# Work (read, write, ioctl) with /dev/epa[0-9]* and
# /dev/epactrl[0-9]*
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
### </param>

interface('polaris_epa_dev_use',
  gen_require(''
    type device_t;
    type polaris_epa_device_t;
  ')
  write_chr_files_pattern($1, device_t, polaris_epa_device_t)
)
read_chr_files_pattern($1, device_t, polaris_ea_device_t)
allow $1 polaris_ea_device_t.chr_file map;

######################################
## <summary>
## Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_luna_mbfpga_dev_use',
gen_require(')
    type device_t;
type polaris_luna_mbfpga_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
    read_chr_files_pattern($1, device_t, polaris_luna_mbfpga_device_t)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/astro device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_astro_dev_use',
gen_require(')
    type device_t;
type polaris_astro_device_t;
')
    write_chr_files_pattern($1, device_t, polaris_astro_device_t)
    read_chr_files_pattern($1, device_t, polaris_astro_device_t)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/cpp_il device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
## Domain allowed access.

```c
interface('polaris_cpp_il_dev_use',
        gen_require(''
            type device_t;
            type polaris_cpp_il_device_t;
        ')
        write_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
        read_chr_files_pattern($1, device_t, polaris_cpp_il_device_t)
    ')
```

#### Work (read, write, ioctl) with /dev/oob_evfc device

```c
interface('polaris_oob_evfc_dev_use',
        gen_require(''
            type device_t;
            type polaris_oob_evfc_device_t;
        ')
        write_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
        read_chr_files_pattern($1, device_t, polaris_oob_evfc_device_t)
    ')
```

#### Work (read, write, ioctl) with /dev/sfp-ktr device

```c
interface('polaris_sfp_katar_dev_use',
        gen_require(''
            type device_t;
            type polaris_sfp_katar_device_t;
        ')
        write_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
    ')
```
read_chr_files_pattern($1, device_t, polaris_sfp_katar_device_t)
')

####################################################################################
## <summary>
## Read vWLC install info files
## </summary>
## <param name="domain">
##     <summary>
##         Domain allowed access.
##     </summary>
## </param>
#
# interface('polaris_vwlcinstall_info_read',
gen_require('
type polaris_vwlcinstall_info_t;
')
read_files_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
list_dirs_pattern($1, polaris_vwlcinstall_info_t, polaris_vwlcinstall_info_t)
')

####################################################################################
## <summary>
## Read /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##     <summary>
##         Domain allowed access.
##     </summary>
## </param>
#
# interface('polaris_vwlcefi_info_read',
gen_require('
type polaris_vwlcefi_info_t;
type polaris_grubver_t;
type polaris_grub_bios_t;
type polaris_grub_efi_t;
')
read_files_pattern($1, polaris_grubver_t, polaris_grubver_t)
read_files_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
read_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
list_dirs_pattern($1, polaris_grubver_t, polaris_grubver_t)
list_dirs_pattern($1, polaris_grub_bios_t, polaris_grub_bios_t)
list_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

####################################################################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
interface(`polaris_vwlc_grub_efi_search',
    gen_require(`
        type polaris_grub_efi_t;
    ')
    search_dirs_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

interface(`polaris_vwlc_grub_efi_use',
    gen_require(`
        type polaris_grub_efi_t;
    ')
    write_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
    read_chr_files_pattern($1, polaris_grub_efi_t, polaris_grub_efi_t)
')

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dnl
define(`database_stem', `translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define(`database_label', `format(`polaris_%s_db_tdl_db_t', database_stem($1)))

define(`database_use_map', `defn(format(``database_use_map[%s-%s]', `$1', `$2')))
define(`database_use_map_set', `define(format(``database_use_map[%s-%s]', `$1', `$2'), `$3'))
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db.m4

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#
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#

policy_module(polarisdmidmimauthd, 1.0);

generate('type polaris_dmi_dmiauthd_t;
')

polaris_btrace_data_manage(polaris_dmi_dmiauthd_t)
polaris_crft_data_manage(polaris_dmi_dmiauthd_t)
polaris_chasfs_manage(polaris_dmi_dmiauthd_t)
polaris_tdlresolve_read(polaris_dmi_dmiauthd_t)
polaris_tdlldb_list_dirs(polaris_dmi_dmiauthd_t)
polaris_cpld_read(polaris_dmi_dmiauthd_t)
polaris_flashlib_read(polaris_dmi_dmiauthd_t)

polaris_ripc_sman_ui_serv_connect(polaris_dmi_dmiauthd_t)

polaris_db_tdlldb_dir_use(polaris_dmi_dmiauthd_t)

# dmiauthd creates and binds to /tmp/.DmiAuth.socket unix socket
type polaris_dmi_dmiauthd_tmp_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_t, polaris_dmi_dmiauthd_tmp_t)

# dmiauthd creates diagnostic files in /tmp/netconf-yang-diag
type polaris_dmi_dmiauthd_tmp_diags_t;
files_tmp_file(polaris_dmi_dmiauthd_tmp_diags_t)
files_tmp_filetrans(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t, { sock_file fifo_file })
manage_sock_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)
manage_fifo_files_pattern(polaris_dmi_dmiauthd_t, polaris_dmi_dmiauthd_tmp_diags_t, polaris_dmi_dmiauthd_tmp_diags_t)

logging_send_syslog_msg(polaris_dmi_dmiauthd_t)

# from dmilib iosp_connect through libiosp iosp_token_read_from_file
# iosp_token_read_from_file reads /tmp/rp/iosp_dmiauthd
polaris_dmiauthd_token_read(polaris_dmi_dmiauthd_t)

gen_require(
    type polaris_confd_tmp_t;
)

# This is applicable to wireless platforms running in standby monitoring mode
# wherein dmiauthd create temporary files in /tmp/confd upon switchover and
# trigger ConfD restart.
manage_files_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)
manage_dirs_pattern(polaris_dmi_dmiauthd_t, polaris_confd_tmp_t, polaris_confd_tmp_t)

# "show netconf-yang diagnostics [all | last | message]" invokes
# /usr/binos/conf/dmid_diag_logs.sh
polaris_utility_domain_template(dmid_diag_logs)
polaris_bexecute_domtrans(polaris_dmi_dmiauthd_t)
polaris_bexecute_domain(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_exec_t)

# signal sent during the show cmd
polaris_send_signal_to_bexecute(polaris_dmi_dmiauthd_t)

# read files in /tmp/netconf-yang-diag
polaris_dmiauthd_tmp_diags_read(polaris_dmid_diag_logs_t)

# need write/ioctl/getattr access for pipes
polaris_dmiauthd_use_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_cpld_read(polaris_dmid_diag_logs_t)
dev_read_sysfs(polaris_dmid_diag_logs_t)
auth_use_nsswitch(polaris_dmid_diag_logs_t)
polaris_boot_tmp_read(polaris_dmid_diag_logs_t)
fs_getattr_tmpfs(polaris_dmid_diag_logs_t)

# bash tmp files, such as /tmp/sh-thd-1599654988
polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_t, polaris_dmid_diag_logs_tmp_t, polaris_dmid_diag_logs_tmp_t)

# execute /bin/sed
corecmd_exec_bin(polaris_dmid_diag_logs_t)
# Allow diagnostics feature to create log file in bootflash
# execute /bin/tar
corecmd_exec_bin(polaris_dmi_dmiauthd_t)
# tar reads /etc/passwd
auth_use_nsswitch(polaris_dmi_dmiauthd_t)
# create log file in bootflash
polaris_bootflash_manage(polaris_dmi_dmiauthd_t)

allow polaris_dmi_dmiauthd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmiauthd.te

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#
/

/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_confld_exec_t,s0)
/opt/confd/lib/confd/lib/core/confd/priv/mmap_schema --
gen_context(system_u:object_r:polaris_mmap_schema_exec_t,s0)
/usr/binos/bin/vip-confd-startup.sh -- gen_context(system_u:object_r:polaris_confld_exec_t,s0)
/usr/bin/vconfd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_confld_exec_t,s0)
/usr/binos/conf/execute_confld_cli.sh -- gen_context(system_u:object_r:polaris_confld_cli_exec_t,s0)
/usr/binos/conf/confd_logs.sh -- gen_context(system_u:object_r:polaris_confld_exec_t,s0)
/var/confd0(/.*)?                             gen_context(system_u:object_r:polaris_confld_var_t,s0)
/dev/shm/confd(.*/*)?                        gen_context(system_u:object_r:polaris_confld_shm_t,s0)
/tmp/confd(.*/*)?                             gen_context(system_u:object_r:polaris_confld_tmp_t,s0)
/tmp/confld_cli(.*/*)?                       gen_context(system_u:object_r:polaris_confld_cli_tmp_t,s0)
/tmp/vconfd(.*/*)?                            gen_context(system_u:object_r:polaris_vconfd_tmp_t,s0)

/usr/bin/vconfd_script_.*admin_tech.*.sh   -- gen_context(system_u:object_r:polaris_admin_tech_exec_t,s0)
/var/tech(.*/*)? gen_context(system_u:object_r:polaris_admin_tech_var_t,s0)

/bootflash/admintech gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/admintech_trace gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/MEMORY_LOG_.*.text gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/collated_log_*    gen_context(system_u:object_r:polaris_admin_tech_data_t,s0)
/bootflash/tracelogs/cia-netconf-trace\.* gen_context(system_u:object_r:polaris_confd_var_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfd.fc
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#

policy_module(polarisunconfined, 1.0);

## <desc>
## <p>
## IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_iosd, true)

## <desc>
## <p>
## All polaris processes except IOSd runs in unconfined mode
## </p>
## </desc>
gen_tunable(polaris_unconfined_all, true)

gen_require(" type apmd_t;
  type auditd_t;
  type inetd_t;
  type init_t;
  type initrc_t;
  type journalctl_t;
  type rpcbind_t;
  type rpcd_t;
  type sshd_t;
  type syslogd_t;
  type telnetd_t;
  type udev_t;
  type virtd_t;
  type virtlogd_t;
  type vmtools_t;
  type ifconfig_t;
  type setfiles_t;
  type iptables_t;
type virsh_t;
type svirt_t;
type svirt_lxc_net_t;
type virtd_lxc_t;
')

polaris_domain_maybe_unconfined(apmd_t)
polaris_domain_maybe_unconfined(auditd_t)
polaris_domain_maybe_unconfined(inetd_t)
polaris_domain_maybe_unconfined(init_t)
polaris_domain_maybe_unconfined(initrc_t)
polaris_domain_maybe_unconfined(journald_t)
polaris_domain_maybe_unconfined(rpcbind_t)
polaris_domain_maybe_unconfined(sshd_t)
polaris_domain_maybe_unconfined(syslogd_t)
polaris_domain_maybe_unconfined(telnetd_t)
polaris_domain_maybe_unconfined(udev_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtd_t)
polaris_domain_maybe_unconfined(virtlogd_t)
polaris_domain_maybe_unconfined(vmtools_t)
polaris_domain_maybe_unconfined(ifconfig_t)
polaris_domain_maybe_unconfined(setfiles_t)
polaris_domain_maybe_unconfined(iptables_t)
polaris_domain_maybe_unconfined(virsh_t)
polaris_domain_maybe_unconfined(svirt_t)
polaris_domain_maybe_unconfined(svirt_lxc_net_t)
polaris_domain_maybe_unconfined(virtd_lxc_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.te
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#

/tmp/HTX-IOX(/.*)? gen_context(system_u:object_r:polaris_htx_iox_tmp_t,s0)

# /dev/sppi_memif htx works with
/dev/sppi_memif -c gen_context(system_u:object_r:polaris_sppi_memif_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishtx.fc
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#  

/usr/bin/os/conf/periodic.sh -- gen_context(system_u:object_r:polaris_periodic_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisperiodic.fc

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#  

policy_module(polarislua, 1.0);

******************************************************************************  
# Lua policy  
******************************************************************************  

type polaris_lua_file_t;
files_type(polaris_lua_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislua.te

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

#  
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#  

policy_module(polariscabognss, 1.0);

gen_require('  
    type polaris_cabo_gnss_t;
')

polaris_btrace_data_manage(polaris_cabo_gnss_t)
polaris_chasfs_managet(polaris_cabo_gnss_t)
polaris_tdlresolve_read(polaris_cabo_gnss_t)
polaris_cpld_read(polaris_cabo_gnss_t)

polaris_ripc_sman_ui_serv_connect(polaris_cabo_gnss_t)

# Allow sysfs read for platform ID and
# r/w on /sys/class/gpio/export
polaris_sysfs_managet(polaris_cabo_gnss_t)
dev_manage_sysfs_dirspolaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify to GPS GPIO
polaris_ggpio_dev_read_write(polaris_cabo_gnss_t)

# Allow Cabo GNSS access to /dev/pps0
dev_rw_realtime_clock(polaris_cabo_gnss_t)

# allow system time capability to check for system timeout
allow polaris_cabo_gnss_t self:capability sys_time;

# Label Cabo GNSS TTY device
type polaris_cabo_gnss_device_t;
dev_node(polaris_cabo_gnss_device_t)
polaris_cabo_gnss_dev_usen(polaris_cabo_gnss_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.100/selinux-tar/selinux/polariscabognss.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl WLC Platform Max Bay Limits
max_bay_map_set(’rp’, ’per_bay’, 0)
max_bay_map_set(’cc’, ’per_bay’, 1)
max_bay_map_set(’fp’, ’per_bay’, 0)

max_bay_ripc_map_set(’rp’, ’per_bay’, 0)
max_bay_ripc_map_set(’cc’, ’per_bay’, 1)
max_bay_ripc_map_set(’fp’, ’per_bay’, 0)

max_bay_ripc_map_set(’rp’, ’global’, 0)
max_bay_ripc_map_set(’cc’, ’global’, 1)
max_bay_ripc_map_set(’fp’, ’global’, 0)
dnl in elastic scope each process has its own value
max_elastic_map_set('rp', `elastic', BPROC_ODM, 1)
max_elastic_map_set('cc', `elastic', BPROC_ODM, 1)
max_elastic_map_set('fp', `elasitc', BPROC_ODM, 1)
max_elastic_map_set('rp', `elastic', BPROC_WNCD, 7)
max_elastic_map_set('cc', `elastic', BPROC_WNCD, 7)
max_elastic_map_set('fp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('cc', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set('fp', `elasitc', BPROC_ODM, 1)
max_elastic_ripc_map_set('rp', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('cc', `elastic', BPROC_WNCD, 7)
max_elastic_ripc_map_set('fp', `elastic', BPROC_WNCD, 7)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/wlcmaps.m4
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#
# August 2017, Shawn Lu
#
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## <summary>Polaris rogued Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.if
No license file was found, but licenses were detected in source scan.

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## <summary>Polaris flashcheck Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.if
No license file was found, but licenses were detected in source scan.
policy_module(polarissmd, 1.0);

gen_require('  
type polaris_smd_t;
')

polaris_btrace_data_manage(polaris_smd_t)
polaris_crft_data_manage(polaris_smd_t)
polaris_chasfs_manage(polaris_smd_t)
polaris_tdlresolve_read(polaris_smd_t)
polaris_tdl ldb_list_dirs(polaris_smd_t)
polaris_cpld_read(polaris_smd_t)
polaris_lua_read(polaris_smd_t)
polaris_flashlib_read(polaris_smd_t)
polaris_ripc_sman_ui_serv_connect(polaris_smd_t)

# working with smd persistent/ disk files

type polaris_smd_disk_t;
polaris_disk_type(polaris_smd_disk_t)

manage_files_pattern(polaris_smd_t, polaris_smd_disk_t, polaris_smd_disk_t)
polaris_db_tdl ldb_dir_use(polaris_smd_t)

# access to persist tdl db (e.g. .db persist)
polaris_tdl ldb persist_setup(polaris_smd_t)

# for /dev/shm/cerrno_dell
polaris_cerr_shm_manage(polaris_smd_t)

ifdef(`nyquist_platform',`
gen_require('  
type polaris bt_logger_smd_mqipc_t;
')

# smd may start first and create this mqipc channel
polaris_mqipc_create_name(polaris_smd_t, polaris bt_logger_smd_mqipc_t, bt_logger_smd)
polaris_lfts_dev_use(polaris_smd_t)

allow polaris_smd_t self:capability { sys_resource net_bind_service };

polaris_socketat_nsfs_read(polaris_smd_t)

allow polaris_smd_t self:process setrlimit;

corenet_tcp_bind_polaris_smd_devshell_port(polaris_smd_t)
corenet_tcp_bind_generic_node(polaris_smd_t)
allow polaris_smd_t self:tcp_socket { getattr setopt getopt bind create listen accept connect read write name_connect };
allow polaris_smd_t self:capability { net_admin sys_admin };

allow polaris_smd_t self:udp_socket { create_socket_perms recv_msg send_msg };
#smutil_msg_event_cb_handler() uses netlink
allow polaris_smd_t self:netlink_socket { bind create };

# LOOK AT ME: now smd may open arbitrary port on forwarding VRF (16)
# but in SELinux there is no way to differentiate between port spaces
# accross VRFs or namespaces. For now let's grant smd_t access to all ports
# regardless of VRF. In future investigate ways to be more restrictive
corenet_udp_bind_generic_port(polaris_smd_t)
corenet_udp_sendrecv_generic_port(polaris_smd_t)
# LOOK AT ME: grants access to udp_bind on any node, but if we can
# be more specific and bind only to forwarding VRF related interfaces
corenet_udp_bind_generic_node(polaris_smd_t)

# smd want to listent on http port 80 on VRF_FWD, for webauth code please see
# smd/webauth/src/webauth_io.c
corenet_tcp_bind_http_port(polaris_smd_t)

allow polaris_smd_t self:capability dac_override;

logging_send_syslog_msg(polaris_smd_t)

allow polaris_smd_t self:capability net_raw;
allow polaris_smd_t self:packet_socket { create_socket_perms recv_msg send_msg };

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t

# for access to disk html files (for webauth)
polaris_persistent_read(polaris_smd_t)

# transition for dc_profile_dir to polaris_smd_disk_t

gen_require(`
    type initrc_t;
    `)

')
polaris_bootflash_filetrans(initrc_t, polaris_smd_disk_t, dir, "dc_profile_dir")

# SANET is listening on http port(CSCvb41802)
# Hence, it needs to follow the same rule as nginx is using in polarisnginx.te
# FIXME: add interface to allow bind to port 1025-65535
corenet_tcp_bind_all_ports(polaris_smd_t)

polaris_issu_tmp_files_read(polaris_smd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissmd.te
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#
/usr/binos/conf/cedge-tanman.sh -- gen_context(system_u:object_r:polaris_cedge_tanman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.fc
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#
/usr/binos/conf/droputil.sh -- gen_context(system_u:object_r:polaris_droputil_exec_t,s0)

/tmp/rp/dropbox(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)
/tmp/rp/droputil(/.*)? gen_context(system_u:object_r:polaris_droputil_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.fc
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#
policy_module(polarisvman, 1.0);

gen_require(
    type polaris_vman_t;
')

polaris_btrace_data_manage(polaris_vman_t)
polaris_crft_data_manage(polaris_vman_t)
polaris_chasfs_manage(polaris_vman_t)
polaris_tdlresolve_read(polaris_vman_t)
polaris_tdlldb_list_dirs(polaris_vman_t)
polaris_cpld_read(polaris_vman_t)
polaris_flashlib_read(polaris_vman_t)
polaris_ripc_sman_ui_serv_connect(polaris_vman_t)
polaris_db_tdlldb_dir_use(polaris_vman_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_vman_t)
polaris_rmonbifo_tmp_read(polaris_vman_t)
polaris_boot_tmp_read(polaris_vman_t)

logging_send_syslog_msg(polaris_vman_t)

modutils_read_module deps(polaris_vman_t)
modutils_read_module_config(polaris_vman_t)
modutils_manage_module_config(polaris_vman_t)
modutils_domtrans_insmod(polaris_vman_t)
files_read_kernel_modules(polaris_vman_t)

corecmd_exec_bin(polaris_vman_t)
corecmd_exec_shell(polaris_vman_t)

# ifconfig related, ifconfig is executed in its own context
sysnet_domtrans_ifconfig(polaris_vman_t)

# VMAN calls vman_set_congestion_control_multiplex when the count
# of the bridge users reaches 2 and needs write permissions on
# contdev_multiplex
dev_rw_sysfs(polaris_vman_t)
fs_getattr_xattr_fs(polaris_vman_t)

virt_stream_connect(polaris_vman_t)
virt_read_pid_files(polaris_vman_t)
fs_rwlock_group_files(polaris_vman_t)
kern tell_read_system_state(polaris_vman_t)
# allow vman to read /dev/pts/*
term use generic_ptys(polaris_vman_t)
#allow polaris_vman_t polaris_udev_tmp_files_t:file open;
polaris_udev_tmp_read(polaris_vman_t)
# allow vman to run brctl in it's own domain
brctl_domtrans(polaris_vman_t)
# allow vman to run /sbin/fsck in script
fstools_domtrans(polaris_vman_t)
# allow vman to mount rootfs on polaris_disk_vman_t
allow polaris_vman_t polaris_disk_vman_t:dir mounton;
fs_mount_xattr_fs(polaris_vman_t)
# allow vman have capability for modify owner of the file
allow polaris_vman_t self:capability { chown fowner fsetid };
# allow vman to bind to unreserved tcp ports while it searches for
# port available to guest console to listen on
corenet_tcp_bind_unreserved_ports(polaris_vman_t)

# working with vman /var/ files
type polaris_var_vman_t;
files_tmp_file(polaris_var_vman_t)
files_var_filetrans(polaris_vman_t, polaris_var_vman_t, dir, "virtual-instance")
manage_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_dirs_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)
manage_sock_files_pattern(polaris_vman_t, polaris_var_vman_t, polaris_var_vman_t)

# working with vman persitsten files
type polaris_disk_vman_t;
polaris_disk_type(polaris_disk_vman_t)

gen_require(
    type polaris_disk_bootflash_t;
    type polaris_disk_harddisk_t;
)
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir, "virtual-instance")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, file, "virtual-instance.conf")
filetrans_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t, dir, "vman_fdb")

# allow creation of /bootflash/virtual-instance.conf file
manage_files_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# allow creation of /bootflash/virtual-instance and /bootflash/vman_fdb directories
manage_dirs_pattern(polaris_vman_t, { polaris_disk_bootflash_t polaris_disk_harddisk_t }, polaris_disk_vman_t)
# vman can manage files inside of its own polaris_disk_vman_t directories
manage_files_pattern(polaris_vman_t, polaris_disk_vman_t, polaris_disk_vman_t)
# after all above transition we need to grant vman right to work with any
# persistent storage file since it needs to access and write .ova files
polaris_persistent_manage(polaris_vman_t)

# vman uses netlink socket to talk to lxc watchdog driver
# please see binos/vman/src/vman_lxc_wd.c
allow polaris_vman_t self:netlink_generic_socket { create_socket_perms sendto recvfrom};

# vman calls tipc-config which in turns wants to create AF_TIPC socket
allow polaris_vman_t self:socket create_socket_perms;

# vman uses 'ip netns exec 0 ifconfig -a' command which in turns switches
# network namespace and need access to /proc/pid/ns/net file
fs_read_nsfs_files(polaris_vman_t)

# this label is created to exchange log related information between container and host.
type polaris_vman_log_t;
# By making this label belong to polaris persistent storage combined with vman inheriting rights
# to manage polaris_disk via polaris_persistent_manage(), vman gains rights to manage below dirs.
polaris_disk_type(polaris_vman_log_t)
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdIpsAlert-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdUrlf-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdAmp-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdTls-IOX")
filetrans_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_log_t, dir, "UtdLogMappings-IOX")
allow polaris_vman_t polaris_vman_log_t:dir mounton;

# Allow vman to work with /bootflash/virtual-instance/UTD/rootfs
optional_policy(
    gen_require('type container_file_t;')
    allow polaris_vman_t container_file_t:filesystem { getattr unmount };)

# Allow vman/ioxman to work with /tmp/HTX-IOX
optional_policy(
    gen_require('type polaris_htx_iox_tmp_t;')
    allow polaris_vman_t polaris_htx_iox_tmp_t:dir { getattr mounton open read; })

# Allow vman to mount /tmp/binos-IOX
optional_policy(
    gen_require('type polaris_qfp_memif_t;')
    allow polaris_vman_t polaris_qfp_memif_t:dir mounton;
allow polaris_vman_t polaris_qfp_memif_t:dir mounton;

# vman_init.sh operates on /tmp/vman files
type polaris_vman_tmp_t;
files_tmp_file(polaris_vman_tmp_t)
files_tmp_filetrans(polaris_vman_tmp_t, polaris_vman_tmp_t, { file dir })
polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
manage_files_pattern(polaris_vman_tmp_t, polaris_vman_tmp_t,polaris_vman_tmp_t)
manage_dirs_pattern(polaris_vman_tmp_t, polaris_vman_tmp_t, polaris_vman_tmp_t)

# allow vman to work with /tmp/xml
fs_remount_tmpfs(polaris_vman_t)
fs_unmount_tmpfs(polaris_vman_t)
fs_unmount_xattr_fs(polaris_vman_t)
allow polaris_vman_t polaris_vman_tmp_t:dir mounton;
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_vman_t)
)

# relabel /bootflash/virtual-instance/UTD/tmpstaging to /dev/loopX
gen_require(''
    type iso9660_t;
')
allow polaris_vman_t iso9660_t:filesystem { relabelfrom };

# configure /proc/sys/net/ipv4/conf/dpbr_0/arp_announce
kernel_search_network_sysctl(polaris_vman_t)
kernl_rw_net_sysctls(polaris_vman_t)
#configure e.g. /proc/sys/vm/nr_hugepages
kernel_rw_vm_sysctls(polaris_vman_t)

# need to do bind mount of /bootflash/SHARED-IOX
mount_domtrans(polaris_vman_t)

# vman accessing files under /tmp created by initrc like /tmp/gdev/md0/gdev-info
init_read_script_tmp_files(polaris_vman_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_vman_t)
polaris_tmp_tdldb_persist_setup(polaris_vman_t)
gen_require(''
    type initrc_t;
')
files_tmp_filetrans(initrc_t, polaris_vman_tmp_t, file, "cgroup.log")
dmidecode_domtrans(polaris_vman_t)

# read /etc/libvirt/libvirt.conf
virt_read_config(polaris_vman_t)

# vman_cgroup_yaml.sh through prep_csr_kumo (binos_functions-pd) checks for
# ovf-env.xml file existence in variety of directories includind
# /cdrom0/ovf-env.xml
fs_read_iso9660_files(polaris_vman_t)

# allow vman to manage loop device: finding free /dev/loopN device
# note vman code iterated over all /dev/loop* devices and try to lock
# them. As part of that iteration it tries /dev/loop_control
# what it should do instead is to use /dev/loop_control to get free
# device
dev_rw_loop_control(polaris_vman_t)

# PLEASE LOOK AT ME
# allow vman to read, write /dev/loopN devices that are
# under fixed_disk_device_t label. It is pretty strong premission
# and at this point it is only done for /dev/loopN devices.
# Can we do better? i.e move /dev/loopN to some other label?
storage_manage_fixed_disk(polaris_vman_t)

# when /bootflash or /harddisk are 100% full
allow polaris_vman_t self:capability sys_resource;

# allow VMAN to move disk.img to the disk
allow polaris_vman_t self:process setfscreate;

# vman mounts directories on behalf of guest containers, it uses
# specified context for guest directories, need permission to
# relabel, mount, etc.
fs_relabelfrom_xattr_fs(polaris_vman_t)
virt_relabel_sandbox_filesystem(polaris_vman_t)
virt_mounton_sandbox_file(polaris_vman_t)
virt_manage_sandbox_files(polaris_vman_t)
gen_require(
        type svirt_sandbox_file_t;
    )
allow polaris_vman_t svirt_sandbox_file_t:filesystem mount;

# /tmp/.flashlock operations from tdllib_startup_cfg_ignored, mcp_getmonvar
allow polaris_vman_t self:capability dac_override;

# allow vman to stat /dev/kvm, executed by vman_common_init function
dev_getattr_kvm_dev(polaris_vman_t)
# vman in getfs_info_by_mediatype function inspects files in /tmp/gdev

```
gen_require('  
    type udev_tmp_t;
  ')
read_files_pattern(polaris_vman_t, udev_tmp_t, udev_tmp_t)
```

# /usr/binos/conf/vman_exec.sh policy

```
polaris_utility_domain_template(vman_shell)
```

```
polaris_bexecute_domain(polaris_vman_shell_t, polaris_vman_shell_exec_t)
```

```
# vman_exec.sh calls mcp_chvrf.sh
polaris_chvrf_domtrans(polaris_vman_shell_t)
```

```
# mcp_chvrf.sh calls vman_exec.sh back and then it call bexec.sh
polaris_bexecute_domtrans(polaris_vman_shell_t)
corecmd_exec_bin(polaris_vman_shell_t)
```

```
# inherits stdin from telnetd
telnet_use_ptys(polaris_vman_shell_t)
```

```
# allow use of ptys for vman tech support
telnet_use_ptys(polaris_vman_tech_t)
```

```
optional_policy('  
    # reads /opt/cisco/caf/config/system-config.ini
    polaris_caf_files_read(polaris_vman_t)
  ')
```

```
# vman_is_machine_type_initialized clone needs cap_users sys_admin
allow polaris_vman_t self:cap_users sys_admin;
```

```
# vman_cgroup_yaml.sh searches for ovf-env.xml on cdrom0
fs_read_removable_files(polaris_vman_t)
```

```
# vman starts vman_init.sh that in turns calls virsh
gen_require('  
    type virsh_t;
    type virsh_exec_t;
  ')
domtrans_pattern(polaris_vman_t, virsh_exec_t, virsh_t)
```

```
polaris_bexecute_domtrans(polaris_vman_t)
polaris_send_signal_to_bexecute(polaris_vman_t)
```

```
gen_require('  
    type polaris_chvrf_t;
  ')
```

# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_chvrf_t)

# vman calls code_sign_verify VmanPackage
polaris_code_verify_domtrans(polaris_vman_t)

# vm_net_dev_utilization reads /proc/2962/net/dev
kernel_read_network_state(polaris_vman_t)

polaris_iosd_vcpu_read(polaris_vman_t)

#/usr/binos/conf/cgroup_reports.sh
polaris_utility_domain_template(cgroup_reports)

polaris_bexecute_domain(polaris_cgroup_reports_t, polaris_cgroup_reports_exec_t)
polaris_bexecute_domtrans(polaris_cgroup_reports_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_cgroup_reports_t)

corecmd_exec_bin(polaris_cgroup_reports_t)
auth_use_nsswitch(polaris_cgroup_reports_t)

fs_read_cgroup_files(polaris_cgroup_reports_t)
fs_list_cgroup_dirs(polaris_cgroup_reports_t)

# cgroup_reports.sh creates misc files under /tmp
type polaris_cgroup_reports_tmp_t;
files_type(polaris_cgroup_reports_tmp_t)
files_tmp_filetrans(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, file)
manage_files_pattern(polaris_cgroup_reports_t, polaris_cgroup_reports_tmp_t, polaris_cgroup_reports_tmp_t)
fs_getattr_tmpfs(polaris_cgroup_reports_t)

#/usr/binos/conf/vman_techsupport.sh
polaris_utility_domain_template(vman_tech)

polaris_bexecute_domain(polaris_vman_tech_t, polaris_vman_tech_exec_t)
polaris_bexecute_domtrans(polaris_vman_tech_t)
# inherited as stdin/sdtout from vman
polaris_vman_use_fifo(polaris_vman_tech_t)

# vman_techsupport.sh starts virsh -c qemu:///system list --all
gen_require(''
    type virsh_t;
    type virsh_exec_t;
')
domtrans_pattern(polaris_vman_tech_t, virsh_exec_t, virsh_t)

# starts ip link show
sysnet_domtrans_ifconfig(polaris_vman_tech_t)
# starts brctl show
brctl_domain(polaris_vman_tech_t)

corecmd_exec_bin(polaris_vman_tech_t)
auth_use_nsswitch(polaris_vman_tech_t)

polaris_proc_rmonbifo_read(polaris_vman_tech_t)
polaris_chasfs_read(polaris_vman_tech_t)
polaris_cpld_read(polaris_vman_tech_t)

# starts ps aux
kernel_read_system_state(polaris_vman_tech_t)
domain_read_all_domains_state(polaris_vman_tech_t)
dev_read_sysfs(polaris_vman_tech_t)
# getattribution of stdin/stdout of misc processes
term_getattr_unallocated_ttys(polaris_vman_tech_t)
term_read_console(polaris_vman_tech_t)

# reads /bootflash/virtual-instance/
polaris_disk_vman_read(polaris_vman_tech_t)

# find /etc/libvirt/lxc -name *.xml -print
virt_read_config(polaris_vman_tech_t)
# no interface that lists virt_etc_rw_t dir
gen_require('  
    type virt_etc_rw_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_etc_rw_t, virt_etc_rw_t)

# find /var/run/libvirt -name *.xml -maxdepth 2 -print
virt_read_pid_files(polaris_vman_tech_t)
# no interface that lists virt_var_run_t dir
gen_require('  
    type virt_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_var_run_t, virt_var_run_t)
# no interface that lists virt_lxc_var_run_t dir
gen_require('  
    type virt_lxc_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, virt_lxc_var_run_t, virt_lxc_var_run_t)
# no interface that lists qemu_var_run_t dir
gen_require('  
    type qemu_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)
# allow read of /run/libvirt/qemu
read_files_pattern(polaris_vman_tech_t, qemu_var_run_t, qemu_var_run_t)

# by some strange reason /var/run/libvirt/network is under dnsmasq_var_run_t label
dnsmasq_read_pid_files(polaris_vman_tech_t)
# no interface that lists dnsmasq_var_run_t dir
gen_require('  
    type dnsmasq_var_run_t;
')
list_dirs_pattern(polaris_vman_tech_t, dnsmasq_var_run_t, dnsmasq_var_run_t)
polaris_vman_var_read(polaris_vman_tech_t)

# cat /proc/net/dev
kernel_read_network_state(polaris_vman_tech_t)

# find /sys/class/net -name intsvc* -type d -print
dev_list_sysfs(polaris_vman_tech_t)

# grep over /varied/ovf-env.xml
polaris_disk_varied_read(polaris_vman_tech_t)

# writes into /tmp/vman_techsupport
polaris_vman_tmp_manage(polaris_vman_tech_t)

# find over /sys/fs/cgroup/memory/machine
fs_list_cgroup_dirs(polaris_vman_tech_t)
# cat /sys/fs/cgroup/memory/machine/memory.limit_in_bytes
fs_read_cgroup_files(polaris_vman_tech_t)

# runs df command
fs_getattr_xattr_fs(polaris_vman_tech_t)
fs_getattr_all_fs(polaris_vman_tech_t)
files_getattr_all_dirs(polaris_vman_tech_t)
# getattr over /run/netsns/2
fs_read_nsfs_files(polaris_vman_tech_t)

# check existence of vman btrace file before passing it to btdecode
polaris_vman_bt_getattr(polaris_vman_tech_t)
# check existence of pman btrace file for vman before passing it to btdecode
polaris_pman_bt_getattr(polaris_vman_tech_t)

# vman_techsupport.sh creates misc files under /tmp
files_type(polaris_vman_tech_tmp_t)
files_tmp_filetrans(polaris_vman_tech_t, polaris_vman_tech_tmp_t, file)
manage_files_pattern(polaris_vman_tech_t, polaris_vman_tech_tmp_t, polaris_vman_tech_tmp_t)

#allow vman tech support to read container logs including listing dirs
gen_require(
    type virt_log_t;
  )
list_dirs_pattern(polaris_vman_meta_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_meta_t)

# allow vman to access /etc/passwd
auth_map_passwd(polaris_vman_shell_t)

# vman does lvm storage management e.g. vman_libvirt_strg_available_by_pool
lvm_domtrans(polaris_vman_t)

# Allow read of pid files e.g. /run/udev/data/b7:34
udev_read_pid_files(polaris_vman_t)

# allow vman to connect to the WAAS container for serial vman_register_socket
polaris_waas_stream_connect(polaris_vman_t)

# allow vman to pgrep
# allow to get getatt of /proc file system
domain_read_all_domains_state(polaris_vman_t)

# allow vman to kill LXC container process that hasn't shutdown
# inspite of a shutdown command
gen_require(
    type virtd_lxc_t;
  )
polaris_vman_kill_process(virtd_lxc_t)

# allow vman to rsync using ioxman_syslib.sh
rsync_entry_type(polaris_vman_t)
corenet_tcp_connect_rsync_port(polaris_vman_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvman.te
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#
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#
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#

/tmp/.ncsshd_authorized_keys(/.*)? gen_context(system_u:object_r:polaris_ncsshd_keys_t,s0)

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## <summary>Polaris Btrace Policy Rules.</summary>

#!/usr/bin/env python3

## <summary>
## Obfl policy
## </summary>

## <summary>
## Read obfl files (under /obfl, /varied/obfl, etc)
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

#interface('polaris_obfl_data_read',
#    gen_require(
#        type polaris_obfl_data_t;
#            type root_t;
#    ')

    read_link_files_pattern($1, root_t, polaris_obfl_data_t)
read_files_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
list_dirs_pattern($1, polaris_obfl_data_t, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;
')

## <summary>
## Manage obfl files (under /obfl, /varied/obfl, etc
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>

#
interface('polaris_obfl_data_manage',
    gen_require(
        type polaris_obfl_data_t;
        type root_t;
        type var_t;
    )
)

read_lnk_files_pattern($1, root_t, polaris_obfl_data_t)
manage_files_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
manage_dirs_pattern($1, { var_t polaris_obfl_data_t }, polaris_obfl_data_t)
allow $1 polaris_obfl_data_t:file map;

')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisobfl.if

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## <summary>Polaris Btrace Policy Rules.</summary>

# RIPC policy

### Work with ripc

#### Domain allowed access.

interface('polaris_ripc',
    corenet_tcp_bind_generic_node($1)
    allow $1 self:tcp_socket { getattr setopt getopt bind create listen accept connect read write };
    # bipc would like to issue "setsockopt(sock, SOL_SOCKET, SO_VRF," which requires
    # net_admin and sys_admin capabilities
allow $1 self:capability { net_admin sys_admin };

polaris_socketat_nsfs_read($1)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrpc.if
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#

/tmp/sw/boot(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/ilos(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/bootup_timestamp            gen_context(system_u:object_r:polaris_boot_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.fc
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# polarisservicemgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisservicemgr.fc
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#

## <summary>Polaris polarisboothelper Policy Rules.</summary>

###################################################
## <summary>
## Read any regular file/directory from /tmp/udev.

```c
interface('polaris_udev_tmp_read',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    read_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)
```

## Manage any regular file/directory from /tmp/udev.

```c
interface('polaris_udev_tmp_manage',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
    manage_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
    manage_files_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)
)
```

## Listdir of any regular directory from /tmp/udev.

```c
interface('polaris_udev_tmp_list_dirs',
    gen_require(
        type polaris_udev_tmp_files_t;
    )
)
```
list_dirs_pattern($1, polaris_udev_tmp_files_t, polaris_udev_tmp_files_t)

')

#######################################
## <summary>
##    Watch udev_tmp_files directories and files
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
## <rolebase/>
#
interface(`polaris_udev_tmp_watch',`
    gen_require(`
        type polaris_udev_tmp_files_t;
    ')
    allow $1 polaris_udev_tmp_files_t:{dir file} watch;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboothelper.if
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#  
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#  
/usr/cpp/bin/cpp_driver -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_us_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)
/usr/cpp/bin/cpp_driver_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_driver_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppdriver.fc
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#  

### <summary>Polaris odm Policy Rules.</summary>

```
# August 2017, Shawn Lu
#
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#
#
## <summary>Pol
```
type polaris_odm_client2server_data_mqipc_t;

')
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b1)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data-b0)
polaris_mqipc_create_name_dir($1, polaris_odm_client2server_data_mqipc_t, odm_clnt2svr_data)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.if
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#

### <summary>Polaris install_mgr Policy Rules.</summary>

######################################
##  Read /tmp/sw/inst_tmp_1 files and directories
##  
## <param name="domain">
##  Domain allowed access.
##  
## </param>
#
interface(`polaris_install_mgr_tmp_read',`
  gen_require(`
    type polaris_install_mgr_tmp_t;
  `)
  list_dirs_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  read_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  read_lnk_files_pattern($1, polaris_install_mgr_tmp_t, polaris_install_mgr_tmp_t)
  `)

######################################
##  Read/Write /.installer files and directories
##  
## <param name="domain">
##  Domain allowed access.
##  
## </param>
#
interface(`polaris_install_mgr_tmp_read',`
interface('polaris_install_disk_manage',
  gen_require( 
    type polaris_disk_bootflash_t;
    type polaris_disk_install_t;
  )
)

filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, dir, ".installer")
filetrans_pattern(polaris_install_mgr_t, polaris_disk_bootflash_t, polaris_disk_install_t, fifo_file, "inot_fifo")
manage_dirs_pattern($1, {polaris_disk_bootflash_t polaris_disk_install_t}, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_fifo_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

jumbotron
</summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_install_disk_read',
  gen_require( 
    type polaris_disk_install_t;
  )
)

read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)

jumbotron
</summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface('polaris_read_user_file',
  gen_require( 
    type polaris_user_file_t;
    type device_t;
  )

read_blk_files_pattern($1, device_t, polaris_user_file_t)
read_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
read_link_files_pattern($1, polaris_user_file_t, polaris_user_file_t)

#######################################
## <summary>
##      getattr for copylog files (location varies by platform)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface('polaris_user_file_getattr',
#   gen_require(
#       type polaris_user_file_t;
#       type device_t;
#   )
#)
#
getattr_files_pattern($1, polaris_user_file_t, polaris_user_file_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.if
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#
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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.fc
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dnl
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dnl
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dnl
dnl Crankshaft (Overlord, Utah, Goldbeach, Neptune, TSN and Supernova) Platform Max Bay Limits
max_bay_map_set('rp', 'per_bay', 0)
max_bay_map_set('cc', 'per_bay', 19)
max_bay_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'per_bay', 0)
max_bay_ripc_map_set('cc', 'per_bay', 19)
max_bay_ripc_map_set('fp', 'per_bay', 0)

max_bay_ripc_map_set('rp', 'global', 0)
max_bay_ripc_map_set('cc', 'global', 19)
max_bay_ripc_map_set('fp', 'global', 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/crankshaftmaps.m4
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#

/usr/bin/vconfd_script_reboot.sh -- gen_context(system_u:object_r:polaris_vconfd_reboot_exec_t,s0)
/usr/bin/vconfd_script_if_reset.sh -- gen_context(system_u:object_r:polaris_vconfd_ifreset_exec_t,s0)
/usr/bin/vconfd_script_get_config.sh -- gen_context(system_u:object_r:polaris_vconfdCfg_exec_t,s0)
/usr/bin/vconfd_script_vmanage_list_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_vmanage_clear_stats.sh --
gen_context(system_u:object_r:polaris_vconfd_history_exec_t,s0)
/usr/bin/vconfd_script_activate.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/mcp_upgrade_wrapper.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_nms_action.sh -- gen_context(system_u:object_r:polaris_vconfd_nms_exec_t,s0)
/usr/bin/vconfd_script_add_chassis_numbers_to_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_remove_chassis_numbers_from_ztp.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/vconfd_script_upload_chassis_number_file.sh --
gen_context(system_u:object_r:polaris_vconfd_device_exec_t,s0)
/usr/bin/reset-conf -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/reset-logs -- gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/patch.sh -- gen_context(system_u:object_r:polaris_vconfd_software_exec_t,s0)
/usr/bin/vconfd_script_reset_vsmart_serial_list.sh --
gen_context(system_u:object_r:polaris_vconfd_reset_exec_t,s0)
/usr/bin/vconfd_script_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_cert.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_show_root_ca_cert.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_upload_root_ca_cert_chain.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_uninstall_root_ca_cert_chain.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_install_certs.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_tlsproxy_remove_certs.sh --
gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)

/usr/bin/vconfd_script_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_show_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_sign_csr.sh -- gen_context(system_u:object_r:polaris_vconfd_csr_exec_t,s0)
/usr/bin/vconfd_script_upload_vsmart_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_upload_vedge_serial_numbers.sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_fetch_core_info.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)
# admin-tech scripts skipped defined in some other place
/usr/bin/list_crashtech_files.sh -- gen_context(system_u:object_r:polaris_vconfd_crash_exec_t,s0)
/usr/bin/vconfd_script_unlock_user.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_set_password.sh -- gen_context(system_u:object_r:polaris_vconfd_aaa_exec_t,s0)
/usr/bin/vconfd_script_container.sh -- gen_context(system_u:object_r:polaris_vconfd_contr_exec_t,s0)
/usr/bin/polaris_iox_precheck.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_install.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_upgrade.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_uninstall.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_reset.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_postcheck.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_download.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_remove.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_iox_activate.sh -- gen_context(system_u:object_r:polaris_vconfd_iox_exec_t,s0)
/usr/bin/polaris_utd_sigupdate.sh -- gen_context(system_u:object_r:polaris_vconfd_utd_exec_t,s0)
/usr/bin/polaris_geo_db_update.sh -- gen_context(system_u:object_r:polaris_vconfd_geo_exec_t,s0)
/usr/bin/vconfd_script_vping.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)
/usr/bin/vconfd_script_vnping.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)
/usr/bin/vconfd_script_vtraceroute.sh -- gen_context(system_u:object_r:polaris_vconfd_net_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.fc

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#
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#
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policy_module(polaris_tdlresolve, 1.0);

generate(attribute polaris_extended_domain);

type polaris_tdlresolve_t;
files_type(polaris_tdlresolve_t)

files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve")
# tdl_boottime.sh uses /tmp/tdlresolve_tmp for some temp files
# which are moved into /tmp/tdlresolve latter
files_tmp_filetrans(polaris_extended_domain, polaris_tdlresolve_t, dir, "tdlresolve_tmp")

type polaris_global_service_t;
files_type(polaris_global_service_t);

generate(attribute polaris_extended_domain);

type polaris_btrace_base_t;
files_type(polaris_btrace_base_t)

generate(attribute polaris_extended_domain);

# tdl_cleanup_epochs.sh uses btrace
allow rsync_t polaris_btrace_base_t:file map;
#rsync invokes tdl_cleanup_epochs.sh as part of this set /proc/[pid]/oom_score_adj is done
allow rsync_t self:capability sys_resource;

policy_module(polarisqfp, 1.0);

polaris_process_domain_template(qfp)
polaris_cpp_process(polaris_qfp_t)
polaris_cpp_dev_use(polaris_qfp_t)
polaris_btrace_data_manage(polaris_qfp_t)
polaris_crft_data_manage(polaris_qfp_t)
polaris_chasfs_manage(polaris_qfp_t)
polaris_lsmpi_dev_use(polaris_qfp_t)
polaris_persistent_list_dirs(polaris_qfp_t);

# allow for hot add on azure
kernel_read_irq_sysctls(polaris_iodbd_t)
kernell_rw_irq_sysctls(polaris_iodbd_t)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597040.739:218): avc: denied { write } for pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=sys_u:sytem_r:polaris_qfp_t:s0
tcontext=sytem_u:object_r:sysfs_t:s0 tclass=file
dev_rw_sysfs(polaris_qfp_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_qfp_t)

# allow access to uio devices like /dev/uio0
dev_rw_userio_dev(polaris_qfp_t)

# Platforms with QAT v1.7 need map permission also
# qae device (/dev/icp_adf_ctl)
type polaris_icp_device_t;
dev_node(polaris_icp_device_t)

allow polaris_qfp_t userio_device_t:chr_file map;

# allow to read /proc/meminfo
kernell_read_system_state(polaris_qfp_t)

# qfp FIA (Feature Invocation Array) resides in /dev/shm/cpp_ucode_dram
# Those are set of instructions assembled by cpp control plane and passed
# to qfp to execute.
polaris_cpp_tmpfs_exec(polaris_qfp_t)

# qfp /var/run pid file
type polaris_qfp_var_run_t;
files_pid_file(polaris_qfp_var_run_t)
manage_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
manage_dirs_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)
files_pid_filetrans(polaris_qfp_t, polaris_qfp_var_run_t, { file dir })
# mmap /var/run/dpdk/rte/config
allow polaris_qfp_t polaris_qfp_var_run_t:file map;

# qfp memif directory and file
type polaris_qfp_memif_t;
files_tmp_file(polaris_qfp_memif_t);
# qfp memif interface for binos clients in /tmp/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "memif")
# creates /tmp/binos-IOX/memif
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_memif_t, dir, "binos-IOX")
polaris_qfp_memif_manage(polaris_qfp_t)
# qfp memif interface for container in /bootflash/SHARED-IOX/memif
polaris_disk_type(polaris_qfp_memif_t)
gen_require(''
    type polaris_disk_bootflash_t;
)'
filetrans_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_qfp_memif_t, dir, "memif")

# work with /bootflash/SHARED-IOX/memif/memif-dp-svr
polaris_utdl_container_dgram_send(polaris_qfp_t)

# work (create/open/read/write) with hugetlfs files
fs_manage_hugetlfs_dirs(polaris_qfp_t)
fs_rw_hugetlfs_files(polaris_qfp_t)
gen_require(''
    type hugetlfs_t;
)'
allow polaris_qfp_t hugetlfs_t:file create;
# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlfs_t:file unlink;

allow polaris_qfp_t self:capability { sys_rawio sys_nice sys_admin };
allow polaris_qfp_t self:process setsched;

# is_nic_netmap_capable function, which is used by vnic_cfg_port, needs socket to
# work with interface parameters
allow polaris_qfp_t self:udp_socket create_socket_perms;

ifdef(\"crankshaft_family\",'
polaris_icc_broken_relocations(polaris_qfp_t)
')

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy(''
    polaris_dash_dev_use(polaris_qfp_t)
)'

# netmap device (/dev/netmap)
type polaris_netmap_device_t;
allow polaris_qfp_t lib_t:file execmod;

# LOOK AT ME: qfp process on TSN LE has executable stack with GNU_STACK marked RWE
# that should be addressed by CSCvkJ99896, once that is fixed remove below
# under CSCvkJ99905.
ifdef(`tsn_platform',`
allow polaris_qfp_t self:process execmem;`)

# lsmpi replacement punt/inject over domain sockets
polaris_pi_uds_manage(polaris_qfp_t)
polaris_iosd_dgram_send(polaris_qfp_t)

# dpdk code reads CPU model specific register (MSR)
dev_read_cpuid(polaris_qfp_t)

# dpdk code in rte_mp_channel_init function creates and works
# with /var/run/dpdk/rte/mp_socket socket
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# dpdk code in dev_uev_socket_fd_create creates and work with
# netlink_kobject_uevent_socket socket
# Note: radium with QAT v1.7 requires getattr and setopt
allow polaris_qfp_t self:netlink_kobject_uevent_socket { getattr setopt bind create };

# hal_random32_init calls hw_random32_init and it opens /dev/random
dev_read_rand(polaris_qfp_t)

gen_require(`
    type sysfs_t;
    `)
mmap_files_pattern(polaris_qfp_t, sysfs_t, sysfs_t)

# LOOK AT ME: remove after CSCvs34007 fixed
# qfp runs hidendir hide /bootflash/SHARED-IOX/memif
corecmd_exec_bin(polaris_qfp_t)
corecmd_exec_shell(polaris_qfp_t)
auth_use_nsswitch(polaris_qfp_t)

# CSR & C8KV use infiniband and tun/tap devices for Azure
type polaris_infiniband_device_t;
dev_node(polaris_infiniband_device_t)
polaris_infiniband_dev_use(polaris_qfp_t)

kernel_request_load_module(polaris_qfp_t)
allow polaris_qfp_t self:netlink_rdma_socket { bind create setopt }
allow polaris_qfp_t self:capability { ipc_lock net_admin net_raw }
allow polaris_qfp_t self:netlink_route_socket rw_netlink_socket_perms;
allow polaris_qfp_t self:tun_socket { create relabelfrom relabelto }
corennet_rw_tun_tap_dev(polaris_qfp_t)

# CSR Azure IO model requires read access
gen_require(
    type proc_net_t;
)
allow polaris_qfp_t proc_net_t:file { read }

# manage MLX NIC socket files in /var/tmp/net mlx5*
type polaris_qfp_var_tmp_t;
files_tmp_file(polaris_qfp_var_tmp_t);
files_tmp_filetrans(polaris_qfp_t, polaris_qfp_var_tmp_t, { sock_file })
manage_sock_files_pattern(polaris_qfp_t, polaris_qfp_var_tmp_t, polaris_qfp_var_tmp_t)

# rm from coreutils-8.30 wants to know filesystem type
fs_getattr_xattr_fs(polaris_qfp_t)

# allow create of dir /bootflash/SHARED-IOX on first install of VM
create_dirs_pattern(polaris_qfp_t, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
polaris_cpld_read(polaris_qfp_t, polaris_sysfs_cpld_t, polaris_sysfs_cpld_t)

# tsn needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`tsn_platform',`
polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# blackheart needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
ifdef(`blackheart_platform',`
polaris_ggpio_dev_read_write(polaris_qfp_t)
')

# sparrow needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# Also needs access to cdal-tns-info.log
ifdef(`sparrow_platform',`
polaris_qfp_log_manage("cdal-tns-info.log")
')
polaris_gpio_dev_read_write(polaris_qfp_t)

# ucode also needs access to ttyUSB4
ifdef('cabo_platform',
   term_use_usb_ttys(polaris_qfp_t)
')

# qfp starts /usr/binos/bin/net_hotremove-vxe.sh
init_read_script_files(polaris_qfp_t)

# access to /dev/dash_xxx devices on cranshaft platforms
optional_policy('polaris_htx_dgram_send(polaris_qfp_t)
')

# net_hotremove-vxe.sh that works with /tmp/iodb
polaris_iodb_tmp_manage(polaris_qfp_t)

# net_hotremove-vxe.sh sends signal to iodbd.sh
gen_require('type polaris_iodb_t;
')
allow polaris_qfp_t polaris_iodb_t:process signal;

# net_hotremove-vxe.sh reads /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_qfp_t)

# long running helper script iodbd.sh
polaris_process_domain_template(iodbd)

# iodbd.sh started by /etc/init.d/binos that runs under initrc_t
gen_require('type initrc_t;
')
polaris_iodb_domtrans(initrc_t)

polaris_boot_tmp_read(polaris_iodb_t)
polaris_chasfs_manage(polaris_iodb_t)
polaris_cpld_read(polaris_iodb_t)
polaris_rmonbifo_tmp_read(polaris_iodb_t)

auth_use_nsswitch(polaris_iodb_t)
corecmd_exec_bin(polaris_iodb_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodb_t)
polaris_sysfs_manage(polaris_iodb_t)
# write into sysfs file like /sys/devices/pci0000:00/0000:00:03.2/config
dev_rw_sysfs(polaris_iodbd_t)

# read/write /run/dpdk/rte/config
manage_files_pattern(polaris_iodbd_t, polaris_qfp_var_run_t, polaris_qfp_var_run_t)

# lspci reads /etc/modprobe.d
modutils_read_module_config(polaris_iodbd_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodbd_t)
files_map_kernel_modules(polaris_iodbd_t)

# runs dmidecode
dmidecode_domtrans(polaris_iodbd_t)
# dmidecode when run in this context needs access initrc stdin/stdout
gen_require(`
    type dmidecode_t;
    `)
init_rw_stream_sockets(dmidecode_t)

# calls ethtool -i intsve0
sysnet_domtrans_ifconfig(polaris_iodbd_t)

# reads /etc/rc.d/init.d/binos_functionspd-iodb
init_read_script_files(polaris_iodbd_t)

# read /proc/sys/vm/nr_hugepages
kernel_read_vm_sysctls(polaris_iodbd_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodbd_t)

# read /proc/cmdline
kernel_read_system_state(polaris_iodbd_t)

polaris_iodb_tmp_manage(polaris_iodbd_t)

type polaris_iodb_tmp_t;
files_tmp_file(polaris_iodb_tmp_t)

# /tmp/iodb is created by /etc/init.d/binos that runs under initrc_t
gen_require(`
    type initrc_t;
    `)
files_tmp_filetrans(initrc_t, polaris_iodb_tmp_t, dir, "iodb")
polaris_iodb_tmp_manage(initrc_t)

# udev_t can drop entries into /tmp/iodb to process
gen_require(
   type udev_t;
)
polaris_iodb_tmp_manage(udev_t)

# Radium and Thallium need to check rommon version when initializing static
# interface table (access /proc/rmonbifo).
optional_policy(
   polaris_proc_rmonbifo_read(polaris_qfp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.te
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#

## <summary>Polaris cpp_ha Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppha.if
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#

policy_module(polarisngwc.tblmgr, 1.0);

gen_require(
   type polaris_ngwc_tbl_mgr_t;
)
polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crtf_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_chasfs_manage(polaris_ngwc_tbl_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_tbl_mgr_t)
polaris_tdlldb_list_dirs(polaris_ngwc_tbl_mgr_t)
polaris_cpld_read(polaris_ngwc_tbl_mgr_t)
polaris_lua_read(polaris_ngwc_tbl_mgr_t)
polaris_flashlib_read(polaris_ngwc_tbl_mgr_t)

polaris_ripc_sman_ui_serv_connect(polaris_ngwc_tbl_mgr_t)

allow polaris_ngwc_tbl_mgr_t self:capability dac_override;

polaris_dyncfg_tmp_read(polaris_ngwc_tbl_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmgr.te
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#
#
# polarisfmanrp file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanrp.fc
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dnl
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dnl
define('polaris_ripc_service_server_aux',
  'dnl
  polaris_ripc_$2_bind($3)
polaris_ripc($3)
  ')
define('polaris_ripc_service_server_full',
  'dnl
  polaris_ripc_service_server_aux(ripc_label($1), ripc_stem($1), process_label($2))
  ')
define('polaris_ripc_service_server',
  'dnl
  ifelse(ripc_type_map($1),
    'polaris_ripc_service_server_full($1, $2, $3, $4, $5))
    ripc_type_map_set(ripc_label($1), process_label($2))
  ')
define('polaris_ripc_service_client_aux',
  'dnl
  polaris_ripc($3)
polaris_ripc_$2_connect($3)
define('polaris_rpc_service_client', 'dnl
polaris_rpc_service_client_aux(ripc_label($1), ripc_stem($1), process_label($2))dnl
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc_te.m4
No license file was found, but licenses were detected in source scan.

#
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#
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#
/usr/bin/os/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/bin/os/conf/audit_snapshot.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/tmp/package_biv_sums -- gen_context(system_u:object_r:polaris_kgv_data_t,s0)
/usr/bin/code_sign_verify -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/boot_verify_package -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)
/usr/sbin/kgv_update -- gen_context(system_u:object_r:polaris_code_verify_exec_t,s0)

/dev/shm/sem.updatepcr8d_msg_sem   gen_context(system_u:object_r:polaris_code_verify_tmpfs_t,s0)

# /dev/aikido
/dev/aikido -c gen_context(system_u:object_r:polaris_aikido_device_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg.sh          gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_fpga.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cpld.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_cmds.sh     gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_hwprg_utils.sh    gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon.sh         gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_cmds.sh    gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_helper.sh  gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/bin/os/conf/mcp_upgrade_rommon_x86.sh     gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)

/dev/scansta                                  -c gen_context(system_u:object_r:polaris_scansta_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristws.fc
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisissucompcheck, 1.0);
polaris_process_domain_template(issu_comp_check)

corecmd_exec_bin(polaris_issu_comp_check_t)
corecmd_exec_shell(polaris_issu_comp_check_t)
polaris_chasfs_manage(polaris_issu_comp_check_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_issu_comp_check_t)

# For reading tracekey from /tmp/tmppub/tracekey_cache/usr/bin/rotee
polaris_btrace_tmppub_read(polaris_issu_comp_check_t)

# For reading /sys/devices/platform/cpld/platform_type
polaris_cpld_read(polaris_issu_comp_check_t)

# For reading /tmp/sw/boot/pkginfo
polaris_boot_tmp_read(polaris_issu_comp_check_t)

# For ls on /tmp/ufs/crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_issu_comp_check_t)
``)

# work with /tmp files
type polaris_issu_comp_check_tmp_t;
files_tmp_file(polaris_issu_comp_check_tmp_t)
manage_dirs_pattern(polaris_issu_comp_check_t, tmp_t, polaris_issu_comp_check_tmp_t)
manage_files_pattern(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t,
polaris_issu_comp_check_tmp_t)
files_tmp_filetrans(polaris_issu_comp_check_t, polaris_issu_comp_check_tmp_t, { file dir })

# For using push_using_rsync
polaris_chvrf_domtrans(polaris_issu_comp_check_t)

gen_require(`
    type rsync_t;
``)
rsync_entry_domtrans(polaris_issu_comp_check_t, rsync_t)
polaris_manage_rsync_tmplog_dir(polaris_issu_comp_check_t)
# rsync inherits issu_comp_check.sh’s stdout/stderr fifo files
allow rsync_t polaris_issu_comp_check_t:fifo_file write;

allow polaris_issu_comp_check_t self:capability sys_resource;

# reads /tmp/remote_sw_verinfo.txt
gen_require(
    type rsync_tmp_t;
')
read_files_pattern(polaris_issu_comp_check_t, rsync_tmp_t, rsync_tmp_t)

# use of errmsg.sh
polaris_script_errmsg_use(polaris_issu_comp_check_t)

# hwutil modifies /sys/bus/i2c/drivers/pca9548/1-0076/reg_control
# TODO: label sysfs so that reg control gets its own label
dev_rw_sysfs(polaris_issu_comp_check_t)

# allow locking of /tmp/sysctrl_i2c.lck
# TODO: this file probably deserves its own label when created by cm_rp
polaris_cm_rp_tmp_manage(polaris_issu_comp_check_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissucompcheck.te
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#
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#
### <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

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#
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#

policy_module(polarispttcd, 1.0);
gen_require(
    type polaris_pttcd_t;
')

polaris_btrace_data_manage(polaris_pttcd_t)
polaris_crft_data_manage(polaris_pttcd_t)
polaris_chasfs_manage(polaris_pttcd_t)
polaris_tdlresolve_read(polaris_pttcd_t)
polaris_tdlldb_list_dirs(polaris_pttcd_t)
polaris_lua_read(polaris_pttcd_t)
polaris_flashlib_read(polaris_pttcd_t)

auth_use_nsswitch(polaris_pttcd_t)
polaris_cpld_read(polaris_pttcd_t)

allow polaris_pttcd_t self:netlink_route_socket r_netlink_socket_perms;

polaris_disk_bootflash_search(polaris_pttcd_t)
polaris_bootflash_manage(polaris_pttcd_t)
polaris_persistent_getattr(polaris_pttcd_t)

type polaris_pttcd_tmp_t;
files_tmp_file(polaris_pttcd_tmp_t)
polaris_systemd_tmpfiles_tmp_filetrans(polaris_pttcd_tmp_t, dir, "interceptor")
gen_require(
    type polaris_btrace_tmppub_t;
')
manage_dirs_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)
manage_lnk_files_pattern(polaris_pttcd_t, { polaris_pttcd_tmp_t polaris_btrace_tmppub_t }, polaris_pttcd_tmp_t)

allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;
allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenets_tcp_bind_generic_node(polaris_pttcd_t)
corenets_tcp_bind_polaris_pttcd_port(polaris_pttcd_t)
corenets_tcp_connect_polaris_pttcd_port(polaris_pttcd_t)
corenets_udp_sendrecv_polaris_pttcd_port(polaris_pttcd_t)

sysnet_read_config(polaris_pttcd_t)

allow polaris_pttcd_t self:capability sys_resource;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.te
No license file was found, but licenses were detected in source scan.

#
policy_module(polarisrrmmgr, 1.0);

gen_require(`
    type polaris_rrm_mgr_t;
`)

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfs_manage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_list_dirs(polaris_rrm_mgr_t)
polaris_cplid_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_idmp_sman_ui_serv_connect(polaris_rrm_mgr_t)
polaris_db_tdlldb_dir_use(polaris_rrm mgr_t)

# allow to use setrlimit
allow polaris_rrm_mgr_t self:process setrlimit;
allow polaris_rrm_mgr_t self:capability sys_resource;
allow polaris_rrm_mgr_t self:capability dac_override;

# stuff related to vrf support of the socket
polaris_lfts_dev_use(polaris_rrm mgr_t)
polaris_socketat_nsfs_read(polaris_rrm mgr t)

# allow to open udp socket on port 12134
corenet_udp_bind_polaris_rrm_mgr_port(polaris_rrm mgr t)
corenet_udp_bind_generic_node(polaris_rrm mgr t)
allow polaris_rrm_mgr_t self:udp_socket { create_socket_perms recv_msg send_msg };
corenet_udp_bind_polaris_rrm_clnt_port(polaris_rrm_mgr_t)
polaris_odm_clnt2svr_mqipc_create(polaris_rrm mgr t)

# access "/bootflash/dbpersist"
polaris_tdlldbpersist_setup(polaris_rrm mgr t)

# access /tmp/rp/tldb/persistent-config/ dir and files in this dir
polaris_tmp_tdlldb_persist_setup(polaris_rrm mgr t)
logging_send_syslog_msg(polaris_rrm_mg_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
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#

policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmdand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyn_cfg_t)
polaris_cpld_read(polaris_dyn_cfg_t)
polaris_lua_read(polaris_dyn_cfg_t)
polaris_cpld_dev_use(polaris_dyn_cfg_t)
polaris_rmonbifo_tmp_read(polaris_dyn_cfg_t)
polaris_chasfs_read(polaris_dyn_cfg_t)

# this script works with /tmp/dyncfg files

type polaris_dyn_cfg_tmp_t;
files_tmp_file(polaris_dyn_cfg_tmp_t)
files_tmp_filetrans(polaris_dyn_cfg_t, polaris_dyn_cfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyn_cfg_t, polaris_dyn_cfg_tmp_t, file)
manage_files_pattern(polaris_dyn_cfg_t, polaris_dyn_cfg_tmp_t, polaris_dyn_cfg_tmp_t)
manage_dirs_pattern(polaris_dyn_cfg_t, polaris_dyn_cfg_tmp_t, polaris_dyn_cfg_tmp_t)
manage_lnk_files_pattern(polaris_dyn_cfg_t, polaris_dyn_cfg_tmp_t, polaris_dyn_cfg_tmp_t, polaris_dyn_cfg_tmp_t)

corecmd_exec_bin(polaris_dyn_cfg_t)
corecmd_exec_shell(polaris_dyn_cfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyn_cfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyn_cfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyn_cfg_t self:process execmem;
# allow objstore access
polaris_disk_objstore_read(polaris_dyncfg_t)

type polaris_dyncfg_log_t;
files_tmp_file(polaris_dyncfg_log_t)

gen_require(
    attribute polaris_domain;
')

filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan.log")
filetrans_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t, file, "cyan_runtime.log")
files_tmp_filetrans(polaris_domain, polaris_dyncfg_log_t, file, "cyan.lock")
manage_files_pattern(polaris_domain, polaris_dyncfg_tmp_t, polaris_dyncfg_log_t)

polaris_dyncfg_tmp_read(polaris_domain)

# on utah need to get model info
optional_policy(
    polaris_dash_dev_use(polaris_dyncfg_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
    polaris_dash_dev_mcp_use(polaris_dyncfg_t)
')

# allow search and read under /tmp/boot directory
polaris_boot_tmp_read(polaris_dyncfg_t)

logging_send_syslog_msg(polaris_dyncfg_t)

# dyncfg needs access to idprom. Idprom is accessed differently depending on
# platform

# on utah idprom is in quack chip: hw_esg_read_midplane_idprom
# on platforms with idprom in quack chip need access to
# quack device as part of hw_esg_read_midplane_idprom call.
ifdef(`crankshaft_family',`
polaris_quack_dev_use(polaris_dyncfg_t)
')
ifdef(`starfleet_platform',`
polaris_quack_dev_use(polaris_dyncfg_t)
')

# on lmg idprom is i2c device in sysfs like:
# /sys/devices/pci0000:00/0000:00:1f.3/i2c-0/i2c-1/1-0056/eeprom
# on ultra it is still emulated by i2c driver like:
# /sys/devices/i2c-0/i2c-1/1-0056/eeeprom
dev_rw_sysfs(polaris_dyncfg_t)

# on nyquist and 1ng idprom value retrieved by flashlib and needs dac_override
allow polaris_dyncfg_t self:capability dac_override;
polaris_flashlib_read(polaris_dyncfg_t)

# LOOK AT ME on quake even rommon var read operation needs write access
# i.e flashutil -c getvar -N MODEL_NUM does open with O_RDWR
ifdef(`quake_platform',`
polaris_flashlib_write(polaris_dyncfg_t)
')

# In chassis_attrs.lua method THIS.WIRELESS checks whether wireless package is installed
# by opening (why open, not stat) wncmgrd binary.
optional_policy(`
    gen_require(`
        type polaris_wncmgrd_exec_t;
    ')
    read_files_pattern(polaris_dyncfg_t, bin_t, polaris_wncmgrd_exec_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /bootflash/rommon_vars file on vwlc
ifdef(`wlc_family',`
polaris_bootflash_read(polaris_dyncfg_t)
')

# lua/cyan/vwlc_chassis_attrs.lua needs to read /boot/vcpu_template file on vwlc
ifdef(`wlc_family',`
polaris_disk_varied_read(polaris_dyncfg_t)
')

# on macallan passport SUP card idprom is in act2 chip.
# hw_passport_read_midplane_idprom invoked from cyan_init
# reads /dev/act2 device.
ifdef(`ngwc_family',`
polaris_act2_dev_use(polaris_dyncfg_t)
')

ifdef(`passport_platform',`
# open /dev/ttyS0 console in hw_passport_read_midplane_idprom, invoked by
# cyaninit
term_use_unallocated_ttys(polaris_dyncfg_t)
')

# during wlc subpackage install cyan_init.sh called from
# C9800-Wireless_startup_script.sh script and output redirected
# into some install_tmp file
ifdef(`ngwc_family',`
polaris_install_tmp_log_write(polaris_dyncfg_t)
')

# /dev/aikido access
polaris_aikido_dev_use(polaris_dyncfg_t)

gen_require(`
    type rsync_t;
')

rsync_entry_domtrans(polaris_dyncfg_t, rsync_t)
corenet_tcp_connect_rsync_port(polaris_dyncfg_t)

ifdef(`sumatra_platform',`
# LOOK AT ME: After direct usage of /dev/mem is removed (CSCvw80796)
# /dev/mem
polaris_dev_mem_use(polaris_dyncfg_t)
')

# For Cabo, allow for stronger permissions to access env_var
ifdef(`cabo_platform',`
polaris_proc_rmonbifo_read(polaris_dyncfg_t)
')

# For Cabo, also allow access to i2c-0
ifdef(`cabo_platform',`
polaris_i2c_use(polaris_dyncfg_t)
')

# /dev/i2c-0 access
ifdef(`petra_platform',`
polaris_i2c_use(polaris_dyncfg_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscyan.te
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#
# August 2017, Victor Kamensky
#
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#
policy_module(polarisflashcheck, 1.0);

gen_require(
    type polaris_flashcheck_t;
')

# allow read of /etc/passwd
auth_use_nsswitch(polaris_flashcheck_t)

corecmd_exec_bin(polaris_flashcheck_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_flashcheck_t)

# uses pidof
domain_read_all_domains_state(polaris_flashcheck_t)
dev_read_sysfs(polaris_flashcheck_t)

# df on "/" needs fs_t:filesystem getattr
fs_getattr_xattr_fs(polaris_flashcheck_t)
polaris_btrace_data_manage(polaris_flashcheck_t)
polaris_chasfs_manage(polaris_flashcheck_t)
polaris_cpld_read(polaris_flashcheck_t)

polaris_read_debug_conf(polaris_flashcheck_t)
polaris_boot_tmp_read(polaris_flashcheck_t)

logging_send_syslog_msg(polaris_flashcheck_t)

# directly output to /dev/ttyS0
term_use_unallocated_ttys(polaris_flashcheck_t)
polaris_bootflash_read(polaris_flashcheck_t)

allow polaris_flashcheck_t self:capability { sys_resource dac_override };

# pidof needs below
allow polaris_flashcheck_t self:capability sys_ptrace;

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_flashcheck_t)

# access of crashinfo dir for flash_check.sh, it does source of pglobals.sh
# which needs acces to /crashinfo
polaris_disk_crashinfo_getattr(polaris_flashcheck_t)

# this is for NFS access mounted in a dir of ncd context
optional_policy(
    polaris_ned_tmp_read(polaris_flashcheck_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisflashcheck.te
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#
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#
#
## <summary>Polaris caf Policy Rules.</summary>

######################################
## <summary>
##      Read /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_files_read',
    gen_require(
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    )
')

read_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    allow $1 polaris_iox_files_t:file map;
')

#######################################
## <summary>
##      Manage /bootflash/iox/ files or harddisk IOX files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## </rolebase/>
#
interface('polaris_iox_files_manage',
    genRequire(''
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    ')

    manage_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    manage_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    manage_lnk_files_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t }, polaris_iox_files_t)
    allow $1 polaris_iox_files_t:file map;
')

########################################################################################################################
## <summary>
##      List /bootflash/iox/ dir or hardisk IOX dir
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_dir_list',
    genRequire(''
        type polaris_iox_files_t;
        type polaris_disk_bootflash_t;
        type polaris_disk_harddisk_t;
        type httpd_var_run_t;
        type polaris_caf_var_run_t;
        type polaris_iox_shared_files_t;
        type polaris_iox_alt_hdd_files_t;
    ')

    list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t polaris_iox_shared_files_t polaris_iox_alt_hdd_files_t; polaris_caf_var_run_t }, polaris_caf_var_run_t)
polaris_iox_shared_files_t polaris_iox_alt_hddd_files_t }, polaris_iox_files_t)
  list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t
polaris_iox_shared_files_t polaris_iox_alt_hddd_files_t }, httpd_var_run_t)
  list_dirs_pattern($1, { polaris_iox_files_t polaris_disk_bootflash_t polaris_disk_harddisk_t
polaris_iox_shared_files_t polaris_iox_alt_hddd_files_t }, polaris_caf_var_run_t)
}

'****************************
## <summary>
##      Search /bootflash/iox/ dir or harddisk IOX
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_iox_dir_search',
  gen_require(
    type polaris_iox_files_t;
    type polaris_iox_shared_files_t;
  ')

  search_dirs_pattern($1, polaris_iox_files_t, polaris_iox_files_t)
')

'****************************
## <summary>
##      Read files like /guestshell/guestshell_set_netns.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# interface('polaris_guestshell_files_read',
  gen_require(
    type polaris_guestshell_t;
    type polaris_iox_shared_files_t;
  ')

  read_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
  read_lnk_files_pattern($1, { polaris_guestshell_t polaris_iox_shared_files_t }, polaris_guestshell_t)
')

'****************************
## <summary>
## Execute files with polaris_guestshell_exec_t type
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolecap/>
#
interface('polaris_guestshell_exec_files_exec',
    gen_require('type polaris_guestshell_exec_t;')
    exec_files_pattern($1, polaris_guestshell_exec_t, polaris_guestshell_exec_t)
')

## <summary>
## Manage /var/run/netns/guestshell files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
interface('polaris_guestshell_var_run_files_manage',
    gen_require('type polaris_guestshell_var_run_t;
type var_run_t;')
    manage_files_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
    manage_dirs_pattern($1, { polaris_guestshell_var_run_t var_run_t }, polaris_guestshell_var_run_t)
')

## <summary>
## Read CAF tmp files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
# interface('polaris_caf_tmp_files_read',
gen_require('type polaris_caf_tmp_files_t;
')
    read_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    read_lnk_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    list_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

########################################################################
## <summary>
##      Manage CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_caf_tmp_files_manage',
gen_require('type polaris_caf_tmp_files_t;
')
    manage_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
    manage_dirs_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

########################################################################
## <summary>
##      Getattr CAF tmp files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_caf_tmp_files_getattr',
gen_require('type polaris_caf_tmp_files_t;
')
    getattr_files_pattern($1, polaris_caf_tmp_files_t, polaris_caf_tmp_files_t)
')

########################################################################
## <summary>
##      Read CAF files. Typically at /opt/cisco/caf/
## </summary>
}
## <summary>
## Domain allowed access.
## </summary>

```
# interface('polaris_caf_files_read',
    gen_require(''
        type polaris_caf_files_t;
    ')

read_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
read_lnk_files_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
list_dirs_pattern($1, polaris_caf_files_t, polaris_caf_files_t)
')
```

```
## <summary>
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## </summary>

```
# interface('polaris_caf_var_run_files_manage',
optional_policy(''
    gen_require(''
        type polaris_caf_var_run_t;
    ')

manage_files_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
manage_dirs_pattern($1, polaris_caf_var_run_t, polaris_caf_var_run_t)
')
```

```
## <summary>
## Read /etc/guestshell_rsa_key file
## </summary>

```
```csharp
## <summary>
## Manage ../local/local1/core_dir/
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
# interface('polaris_caf_local_core_files_manage',
# optional_policy(''
# type polaris_caf_core_files_t;
# ')}

manage_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_dirs_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
manage_lnk_files_pattern($1, polaris_caf_core_files_t, polaris_caf_core_files_t)
')

')

')

')

')

')

`)
interface('polaris_iox_alt_hdd_manage',
  optional_policy(
    gen_require(
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type polaris_iox_alt_hdd_files_t;
    )
    manage_files_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
    manage_dirs_pattern($1, polaris_iox_alt_hdd_files_t, polaris_iox_alt_hdd_files_t)
  )
)

###############################
## <summary>
##      Getattr alternate harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_alt_hdd_getattr',
  gen_require(
    type polaris_iox_alt_hdd_files_t;
  )
  allow $1 polaris_iox_alt_hdd_files_t:filesystem getattr;
)

###############################
## <summary>
##      Manage tty device link files. Typically at /dev/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_tty_lnk_manage',
  gen_require(
    type polaris_caf_tty_file_t;
  )
  create_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
  read_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)
delete_lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)

ref lnk_files_pattern($1, polaris_caf_tty_file_t, polaris_caf_tty_file_t)

######################################
## <summary>
##      Manage tty device chr files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_caf_chr_file_read',
        gen_require(
                type devpts_t;
        )

setattr_chr_files_pattern($1, devpts_t, devpts_t)
read_chr_files_pattern($1, devpts_t, devpts_t)

######################################
## <summary>
##	Execute caf in the polaris_caf domain.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
#
interface('polaris_caf_domtrans',
        gen_require(
                type polaris_caf_t, polaris_caf_exec_t;
        )

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)

######################################
## <summary>
##	Provide process signal perms.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
interface(`polaris_caf_proc_signal_perms',
    gen_require(
        type polaris_caf_t;
    )
    allow $1 polaris_caf_t:process sigkill;
')

interface(`polaris_ioxss_rp_tmp_manage',
    gen_require(
        type polaris_ioxss_rp_tmp_t;
    )
    manage_files_pattern($1,{polaris_ioxss_rp_tmp_t }, polaris_ioxss_rp_tmp_t)
')

interface(`polaris_iosd_portal_app_lipc_getattr',
    gen_require(
        type polaris_iosd_portal_app_lipc_t;
    )
    getattr_sock_files_pattern($1, polaris_iosd_portal_app_lipc_t, polaris_iosd_portal_app_lipc_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscaf.if
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#
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#
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#

/usr/cpp/bin/cpp_cp_svr -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_us_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/cpp/bin/cpp_cp_svr_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_cp_exec_t,s0)
/usr/binos/conf/geo_ipv4_db -- gen_context(system_u:object_r:polaris_geodb_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc
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#

# polarisnifmgr file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnifmgr.fc
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#
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#

policy_module(polarisgnmib, 1.0);

gen_require(`
    type polaris_gnmib_t;
`)

polaris_btrace_data_manage(polaris_gnmib_t)
polaris_crft_data_manage(polaris_gnmib_t)
polaris_chasfs_manage(polaris_gnmib_t)
polaris_tdlresolve_read(polaris_gnmib_t)
polaris_tldldb_list_dirs(polaris_gnmib_t)
polaris_cpld_read(polaris_gnmib_t)
polaris_lua_read(polaris_gnmib_t)
polaris_flashlib_read(polaris_gnmib_t)

polaris_db_tldldb_dir_use(polaris_gnmib_t)

optional_policy(
  # deals with /dev/shm/confd setup (schema and pid)
  polaris_confid_shm_setup(polaris_gnmib_t)
  # and allow read shared schema
  polaris_confid_shared_schema_read(polaris_gnmib_t)
  # from evconfd_dynamic_load
  polaris_confid_shared_schema_watch(polaris_gnmib_t)
  # read /proc/confd_pid/exe file
  polaris_confid_read(polaris_gnmib_t)
')

allow polaris_gnmib_t self:capability dac_override;

logging_send_syslog_msg(polaris_gnmib_t)

# create ndbutil directory under /var/lock
polaris_confid_ndbutil_create(polaris_gnmib_t)

polaris_ndbutil_lock_template(polaris_gnmib_t, gnmib, ".l.schema_use.gnmib")

# grpc library through sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_gnmib_t)

# gnmib uses multiple (configurable) tcp ports for secure and insecure mode
corenet_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corenet_tcp_connect_all_ports(polaris_gnmib_t)

# iosp_token_read_from_file reads /tmp/rp/iosp_gnmib
polaris_gnmib_token_read(polaris_gnmib_t)

# gnmib creates /var/tmp/gnmib.pid
type polaris_gnmib_var_t;
files_tmp_file(polaris_gnmib_var_t);
files_tmp_filetrans(polaris_gnmib_t, polaris_gnmib_var_t, file, "gnmib.pid");
manage_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_dirs_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
manage_lnk_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)
dev_read_rand(polaris_gnmib_t)

kernel_read_net_sysctls(polaris_gnmib_t)

type polaris_gnmib_gnoi_images_t;
files_type(polaris_gnmib_gnoi_images_t);
polaris_bootflash_filetrans(polaris_gnmib_t, polaris_gnmib_gnoi_images_t, file,);
manage_files_pattern(polaris_gnmib_t, polaris_disk_bootflash_t, polaris_gnmib_gnoi_images_t)

polaris_install_engine_domtrans(polaris_gnmib_t)

corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

polaris_rmonbifo_tmp_read(polaris_gnmib_t)

auth_map_passwd(polaris_gnmib_t)

polaris_tmp_tdldb_persist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

fs_getattr_xattr_fs(polaris_gnmib_t)

polaris_issu_tmp_files_read(polaris_gnmib_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.te

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/usr/bin/os/conf/mcp_crft_request.sh -- gen_context(system_u:object_r:polaris_crft_request_exec_t,s0)
#NGWC - nyquist, edison, bigbang
/mnt/sd3/user/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/mnt/sd3/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#NGWC - macallan, starfleet
/flash1/user/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/user/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#MCP, QWLC
/vol/harddisk/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/vol/harddisk/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#VXE, WLC, CRANKSHAFT, MCP
/bootflash/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/bootflash/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#CRANKSHAFT - blackheart, sparrow
/flash1/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash1/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

#PETRA - petra
# USER is a reserved selinux keyword - escape it like this
/flash10/USE[R]/.CRFT(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/[0-9]*(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)
/flash10/USE[R]/.CRFT/archive(/.*)?  gen_context(system_u:object_r:polaris_crft_data_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.fc
No license file was found, but licenses were detected in source scan.

# # March 2017, Victor Kamensky
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#
#
# polariscmm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmfc.fc
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#

## <summary>Polaris install Policy Rules.</summary>

########################################
## <summary>
## Read polaris_sw_data_t, effectively path to read polaris
## base image packages
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sw_data_read',`
    gen_require(`
        type polaris_sw_data_t;
        type tmp_t;
    ')
    read_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    read_lnk_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
    list_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
')

########################################
## <summary>
## Map polaris_sw_data_t, effectively path to map polaris
## base image packages
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_sw_data_map',`
    gen_require(`
        type polaris_sw_data_t;
    ')
    allow $1 polaris_sw_data_t:file map;
Manage polaris_sw_data_t, effectively path to set up polaris base image packages house holding

```
interface('polaris_sw_data_manage',
gen_require(`
type polaris_sw_data_t;
type tmp_t;
`
manage_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
manage_link_files_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
manage_dirs_pattern($1, { tmp_t polaris_sw_data_t }, polaris_sw_data_t)
allow $1 polaris_sw_data_t:dir mounton;
'
)
```

Read polaris_patch_data_t, effectively path to read polaris smu patch or optional packages

```
interface('polaris_patch_data_read',
gen_require(`
type polaris_patch_data_t;
type tmp_t;
`
read_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
read_link_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
list_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
'
)
```
## Manage polaris_patch_data_t, effectively path to set up polaris
## smu patch or optional packages house holding
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_patch_data_manage',
gen_require(
type polaris_patch_data_t;
    type tmp_t;
')
  manage_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
  manage_link_files_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
  manage_dirs_pattern($1, { tmp_t polaris_patch_data_t }, polaris_patch_data_t)
')

#  Watch patch_data directories
# </summary>
# <param name="domain">
# <summary>
# Domain allowed access.
# </summary>
# </param>
# <rolebase/>
#
interface('polaris_patch_data_watch',
gen_require(
type polaris_patch_data_t;
')
  allow $1 polaris_patch_data_t:dir watch;
')

# Write into tmp files created by install_show.sh
# </summary>
# <param name="domain">
# <summary>
# Domain allowed to transition.
# </summary>
# </param>
#
interface('polaris_install_show_tmp_write',

gen_require("
type polaris_install_show_tmp_t;

    type tmp_t;

')
    write_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
## Read tmp files created by install_show.sh
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface('polaris_install_show_tmp_read',
gen_require("
type polaris_install_show_tmp_t;

    type tmp_t;

')
    read_files_pattern($1, { tmp_t polaris_install_show_tmp_t }, polaris_install_show_tmp_t)
')

########################################
## <summary>
## Manage tmp installer files and directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_install_show_tmp_manage',
gen_require("
type polaris_install_show_tmp_t;

')
    manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
')

########################################
## <summary>
## Manage /bootflash/issu_loc_lock files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_install_show_tmp_manage',
gen_require("
type polaris_install_show_tmp_t;

')
    manage_dirs_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
    manage_lnk_files_pattern($1, polaris_install_show_tmp_t, polaris_install_show_tmp_t)
')
## TODO: provfunc.sh and hman have reference to /bootflash/$ISSU_LOCAL_LOCK_FILE.
## For now, I am keeping manage_dirs_pattern for polaris_disk_bootflash_t.
## Need to re-visit so that callers to this macro do not have write-permission
to all of bootflash..
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <rolebase/>
#
interface(`polaris_issu_files_manage',`
gen_require(`
  type polaris_issu_files_t;
  type polaris_disk_bootflash_t;
')

filetrans_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t, file, ".issu_loc_lock")
manage_files_pattern($1, polaris_issu_files_t, polaris_issu_files_t)
manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_issu_files_t)
')

*******************************************************************************
## <summary>
## Manage ISSU tmp files, allowing to record and check upgrade progress
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## <rolebase/>
#
interface(`polaris_issu_tmp_files_manage',`
gen_require(`
type polaris_issu_tmp_files_t;
  type tmp_t;
')

manage_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
manage_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
manage_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
')

*******************************************************************************
## <summary>
## Write/read any regular file/directory from /bootflash/install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_install_manage',
   gen_require('  
      type polaris_disk_install_t;
   ')
manage_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
manage_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
allow $1 polaris_disk_install_t:dir watch;
')

#######################################
## <summary>
##      Read any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_install_read',
   gen_require('  
      type polaris_disk_install_t;
   ')
search_dirs_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
read_lnk_files_pattern($1, polaris_disk_install_t, polaris_disk_install_t)
allow $1 polaris_disk_install_t:dir {watch read};
')

#######################################
## <summary>
##      Get attributes of any regular file/directory from /bootflash/.install
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_disk_install_fs_getattr',
   gen_require('  
   ')}
type polaris_disk_install_t;

allow $1 polaris_disk_install_t:filesystem getattr;

######################################
## <summary>
##      Manage /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_tmp_manage',
 gen_require(''
 type polaris_install_tmp_t;

 manage_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 manage_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 manage_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 manage_fifo_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)

')

######################################
## <summary>
##      Read /tmp/installer files and directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_install_tmp_read',
 gen_require(''
 type polaris_install_tmp_t;

 list_dirs_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 read_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 read_lnk_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
 allow $1 polaris_install_tmp_t:dir watch;
 allow $1 polaris_install_tmp_t:file map;

')

######################################
## Execute install related scripts in its own domain.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_engine_domtrans',
    gen_require(
        type polaris_install_engine_t, polaris_install_engine_exec_t;
    )
    domtrans_pattern($1, polaris_install_engine_exec_t, polaris_install_engine_t)
')

########################################################
## Write into tmp log files created by install engine
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_tmp_log_write',
    gen_require(
        type polaris_install_tmp_log_t;
    )
    write_files_pattern($1, polaris_install_tmp_log_t, polaris_install_tmp_log_t)
')

############################################################
## Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_install_selinux_domtrans',
    gen_require(
        type polaris_install_selinux_t, polaris_install_selinux_exec_t;
    )
)
domtrans_pattern($1, polaris_install_selinux_exec_t, polaris_install_selinux_t)
')

###########################################################
## <summary>
##  Execute wireless install related scripts in its own domain.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </param>
#
# interface('polaris_install_wireless_domtrans',
#   gen_require(
#      type polaris_install_wireless_t, polaris_install_wireless_exec_t;
#   )
#
#   domtrans_pattern($1, polaris_install_wireless_exec_t, polaris_install_wireless_t)
#')

###########################################################
## <summary>
##  Execute install show scripts in its own domain.
## </summary>
## <param name="domain">
##  Domain allowed to transition.
## </param>
#
# interface('polaris_install_show_domtrans',
#   gen_require(
#      type polaris_install_show_t, polaris_install_show_exec_t;
#   )
#
#   domtrans_pattern($1, polaris_install_show_exec_t, polaris_install_show_t)
#')

###########################################################
## <summary>
##  Allow the specified domain to manage KGV data files
## I.e under /tmp/pkg_cs_debug created by function verify_pkg
## common scripts file.
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
interface('polaris_pkg_cs_debug_manage',
    gen_require('polaris_pkg_cs_debug_t;
    ') files_tmp_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
fs_tmpfs_filetrans($1, polaris_pkg_cs_debug_t, dir, "pkg_cs_debug")
manage_dirs_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
manage_files_pattern($1, polaris_pkg_cs_debug_t, polaris_pkg_cs_debug_t)
')

interface('polaris_i2c_lock_file_manage',
    gen_require('polaris_i2c_lock_file_t;
    ') manage_dirs_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
manage_files_pattern($1, polaris_i2c_lock_file_t, polaris_i2c_lock_file_t)
')

interface('polaris_install_tmp_write',
    gen_require('polaris_install_tmp_t;
    ') write_files_pattern($1, polaris_install_tmp_t, polaris_install_tmp_t)
allow $1 polaris_install_tmp_t:dir watch;
')
### <summary>
Read/Write /.images files and directories
</summary>

### <param name="domain">
Domain allowed access.
</param>

```c
interface('polaris_install_images_manage',
    gen_require(
        type polaris_install_images_t;
    )

    manage_dirs_pattern($1, polaris_install_images_t, polaris_install_images_t)
    manage_files_pattern($1, polaris_install_images_t, polaris_install_images_t)
)
```

### <summary>
Read ISSU tmp files
</summary>

### <param name="domain">
Domain allowed access.
</param>

```c
interface('polaris_issu_tmp_files_read',
    gen_require(
        type polaris_issu_tmp_files_t;
        type tmp_t;
    )

    list_dirs_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    read_lnk_files_pattern($1, { tmp_t polaris_issu_tmp_files_t }, polaris_issu_tmp_files_t)
    allow $1 polaris_issu_tmp_files_t:file map;
)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstall.if

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

#
# August 2017, Shawn Lu
#
policy_module(polarisodm, 1.0);

gen_require(`
    type polaris_odm_t;
`)

    polaris_btrace_data_manage(polaris_odm_t)
polaris_crft_data_manage(polaris_odm_t)
polaris_chasfs_manage(polaris_odm_t)
polaris_tdlresolve_read(polaris_odm_t)
polaris_tdlldb_list_dirs(polaris_odm_t)
polaris_cpld_read(polaris_odm_t)
polaris_lua_read(polaris_odm_t)
polaris_flashlib_read(polaris_odm_t)
polaris_ripc_sman_ui_serv_connect(polaris_odm_t)
polaris_db_tdlldb_dir_use(polaris_odm_t)

# allow setrlimit
allow polaris_odm_t self:capability sys_resource;
allow polaris_odm_t self:process setrlimit;
allow polaris_odm_t self:capability dac_override;

# odm_svr2clnt_data uses subdirectory for channels needs explicit rule
# to allow it. ODM elastic value is 2 now, add more if need in the
# future.
gen_require(`
    type polaris_odm_server2client_data_mqipc_t;
`)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b1)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data-b0)
polaris_mqipc_create_name_dir(polaris_odm_t, polaris_odm_server2client_data_mqipc_t, odm_svr2clnt_data)

logging_send_syslog_msg(polaris_odm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.te
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
#

## <summary>Polaris polarisreflector Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.if
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
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#

policy_module(polariscontainer, 1.0);

# polaris_default_container_t type for not labeled container
polaris_container_domain_template(default)

# polaris_utd_container_t type for snort container
polaris_container_domain_template(utd)
polaris_utd_container(polaris_utd_container_t)

# polaris_utdl_container_t type for snort container, that has
# legacy configuration, need more permissions
polaris_container_domain_template(utdl)
polaris_utd_container(polaris_utdl_container_t)

# manage /tmp/xml/{Utd*} dirs
polaris_vman_log_files_manage(polaris_utdl_container_t)
optional_policy(
    polaris_cedge_xml_tmp_manage(polaris_utdl_container_t)
)

allow polaris_utdl_container_t ramfs_t:file map;

polaris_iox_container_watch(polaris_utdl_container_t)

# work with memif
optional_policy(
    polaris_qfp_dgram_send(polaris_utdl_container_t)
)

# creates /tmp/HTX-IOX/sw-htx-service
optional_policy(
    polaris_htx_iox_tmp_manage(polaris_utdl_container_t)
)
optional_policy(
    polaris_htx_use_client_socket(polaris_utdl_container_t)
)

# allow container to work with /tmp/binos-IOX
optional_policy(
    polaris_qfp_memif_manage(polaris_utdl_container_t)
)

# snort works with /dev/shm/SPO_DAQ_MMAP_OBJ_
fs_exec_tmpfs_files(polaris_utdl_container_t)

# allow container to work with /tmp/xml/* files
optional_policy(
    polaris_vman_tmp_manage(polaris_utdl_container_t)
)

gen_require(`
    type container_file_t;
')
polaris_disk_type(container_file_t)

# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of ramfs on /tmp/snortlogs
fs_mount_ramfs(polaris_utdl_container_t)
# legacy utd (snort) container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_utdl_container_t)
fs_manage_tmpfs_dirs(polaris_utdl_container_t)
fs_manage_tmpfs_files(polaris_utdl_container_t)
fs_manage_tmpfs_symlinks(polaris_utdl_container_t)

# Allow ramfs access to utd container
fs_manage_ramfs_dirs(polaris_utdl_container_t)
fs_manage_ramfs_files(polaris_utdl_container_t)

# Allow link file access from cron to crond
kernel_read_state(polaris_utdl_container_t)

# Allow Snort
allow polaris_utdl_container_t self:packet_socket map;

# polaris_iox_container_t type for generic IOx containers
polaris_container_domain_template(iox)

fs_mount_tmpfs(polaris_iox_container_t)
fs_manage_tmpfs_dirs(polaris_iox_container_t)
fs_manage_tmpfs_files(polaris_iox_container_t)
fs_manage_tmpfs_symlinks(polaris_iox_container_t)
fs_manage_tmpfs_socket(polaris_iox_container_t)
# fs_manage_tmpfs_fifo_files is missing
gen_require(''
    type tmpfs_t;
')
manage_fifo_files_pattern(polaris_iox_container_t, tmpfs_t, tmpfs_t)
fs_mounton_tmpfs(polaris_iox_container_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_iox_container_t tmpfs_t:file map;

# container reads ip netns identity <pid>
fs_read_nsfs_files(polaris_iox_container_t)

# container systemd does remount of some file systems
gen_require(''
    type svirt_sandbox_file_t;
')
allow polaris_iox_container_t svirt_sandbox_file_t:filesystem { remount };

polars_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polars_caf_local_core_files_manage(polaris_iox_container_t)

allow polaris_iox_container_t self:cap_users { chown dac_override dac_read_search fsetid setgid setpcap setuid
sys_admin sys_boot };

gen_require(''
    type devpts_t;
    type polaris_iox_container_t;
    type container_runtime_t;
    class fifo_file { getattr ioctl read write };
    class chr_file { getattr ioctl open read setattr write };
')

#============= polaris_iox_container_t ==============
allow polaris_iox_container_t container_runtime_t:fifo_file { getattr setattr ioctl open read write };
allow polaris_iox_container_t devpts_t:chr_file { getattr ioctl open read setattr write };

# Normally lipc denials are addressed by code that is generated from TDL.
# Le if process need to access lipc service it just need to be listed as 'client' of proper TDL service.
# If in this case iox_container process does not have its own TDL proc_def entry,
# therefore we use autogenerated polaris_lipc_iosd_portal_app_write macro/interface.
# Marking this policy optional, so that if platform TDL does not have proper service defined
# then polaris_lipc_iosd_portal_app_write won't be generated, but container policy still would compile.
optional_policy(
    gen_require(''

type polaris_iosd_t;

polaris_lipc_iosd_portal_app_write(polaris_iox_container_t, polaris_iosd_t)

) docker_exec_lib(polaris_iox_container_t)
   fs_exec_hugetlbfs_files(polaris_iox_container_t)
   kernel_read_ring_buffer(polaris_iox_container_t)
   dev_read_sysfs(polaris_iox_container_t)
   polaris_iox_container_watch(polaris_iox_container_t)

# polaris_sdavc_container_t type for SDAVC container, that has
# legacy configuration, need more permissions

polaris_container_domain_template(sdavc)
polaris_utd_container(polaris_sdavc_container_t)

# manage /tmp/xml/{SDAVC*} dirs
polaris_vman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC container in /etc/init.d/rc.local does unconditional
# mount of tmpfs on /dev/shm
fs_mount_tmpfs(polaris_sdavc_container_t)

# container systemd mounton tmpfs_t & tmpf_st management
fs_mounton_tmpfs(polaris_sdavc_container_t)
fs_manage_tmpfs_dirs(polaris_sdavc_container_t)
fs_manage_tmpfs_files(polaris_sdavc_container_t)
fs_manage_tmpfs_symlinks(polaris_sdavc_container_t)
fs_manage_tmpfs_sockets(polaris_sdavc_container_t)
manage_fifo_files_pattern(polaris_sdavc_container_t, tmpfs_t, tmpfs_t)
# container systemd file mmaps tmpfs_t, i.e /usr/lib/systemd/systemd-journald
allow polaris_sdavc_container_t tmpfs_t:file map;
# Add watch on tmpfs_t/container_t dir/files
polaris_iox_container_watch(polaris_sdavc_container_t)

# map/mount/write hugtlbfs files
gen_require(''
   type hugetlbfs_t;
'')
allow polaris_sdavc_container_t hugetlbfs_t:filesystem mount;
allow polaris_sdavc_container_t hugetlbfs_t:file map;
fs_manage_hugetlbfs_dirs(polaris_sdavc_container_t)

# Allow syslog_mod operation on kernel_t
kernel_clear_ring_buffer(polaris_sdavc_container_t)
# Allow tcpdump
allow polaris_sdavc_container_t self:packet_socket map;
allow polaris_utdl_container_t self:packet_socket map;

# add in the docker files labels to polaris_disk_type
gen_require(
    type container_var_lib_t;
    type container_share_t;
    type container_log_t;
)
polaris_disk_type(container_var_lib_t)
polaris_disk_type(container_share_t)
polaris_disk_type(container_log_t)

# polaris_waas_container_t type for WAAS KVM
polaris_kvm_domain_template(waas)

# Allow rw block files access to /dev/lvm_raid
storage_dontaudit_write_fixed_disk(polaris_waas_container_t)
storage_dontaudit_read_fixed_disk(polaris_waas_container_t)

# Manage hugetlbfs files/dirs
fs_manage_hugetlbfs_dirs(polaris_waas_container_t)
manage_files_pattern(polaris_waas_container_t, hugetlbfs_t, hugetlbfs_t)
fs_exec_hugetlbfs_files(polaris_waas_container_t)

# allow access of /dev/kvm device
dev_rw_kvm(polaris_waas_container_t)

# allow domain to search/write to virlogd_t
polaris_vman_virtlog_allow(polaris_waas_container_t)

# Allow for guest-share
gen_require(
    type polaris_iox_shared_files_t;
)
manage_files_pattern(polaris_iox_container_t, polaris_iox_shared_files_t, polaris_iox_shared_files_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscontainer.te
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#
## <summary>Polaris polarispvp Policy Rules.</summary>

### <summary>Execute a domain transition to run pvp.</summary>
### <param name="domain">
    Domain allowed to transition.
### </param>
#
# interface(`polaris_pvp_domtrans`,
    gen_require(
        type polaris_pvp_t, polaris_pvp_exec_t;
    )
)

domtrans_pattern($1, polaris_pvp_exec_t, polaris_pvp_t)
)

### <summary>Manage pvp temporary files and directories in /tmp.</summary>
### <param name="domain">
    Domain allowed access.
### </param>
#
# interface(`polaris_pvp_manage_tmp_files`,
    gen_require(
        type polaris_pvp_tmp_t;
    )
)

manage_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_dirs_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
manage_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
)

### <summary>Manage pvp process_state files and directories in /tmp/[rp|fp|cc]/pvp/process_state.</summary>
### <param name="domain">
### </param>

interface('polaris_pvp_manage_process_state_files',
    gen_require(
        type polaris_process_state_t;
    )
    manage_files_pattern($1, polaris_process_state_t, polaris_process_state_t)
)

interface('polaris_pvp_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    )
    getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
)

interface('polaris_pvp_stdin_read',
    gen_require(
        type polaris_pvp_tmp_t;
    )
    getattr_dirs_pattern($1, tmp_t, polaris_pvp_tmp_t)
read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
')

#############################################
## <summary>
## Read pvp temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pvp_read_tmp_files',
    gen_require(
        type tmp_t;
        type polaris_pvp_tmp_t;
    )
)

rw_files_pattern($1, { tmp_t polaris_pvp_tmp_t }, polaris_pvp_tmp_t)
')

#############################################
## <summary>
## Read pvp SAI files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_pvp_read_sai_files',
    gen_require(
        type polaris_pvp_sai_t;
    )
    read_files_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
    list_dirs_pattern($1, polaris_pvp_sai_t, polaris_pvp_sai_t)
    allow $1 polaris_pvp_sai_t:dir watch;
')

#############################################
## <summary>
## Delete pvp SAI dirs and files under /tmp/[rp|fp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
interface('polaris_pvp_delete_sai_files',
    gen_require(
        type polaris_pvp_sai_t;
    )
    allow $1 polaris_pvp_sai_t:dir { remove_name rmdir write }; 
    allow $1 polaris_pvp_sai_t:file unlink;
')

interface('polaris_process_state_watch',
    gen_require(
        type polaris_process_state_t;
    )
    allow $1 polaris_process_state_t:dir watch;
')

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#

policy_module(polarisrmonbifo, 1.0);

# Polaris Rmonbifo Driver policy

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# note polaris_proc_rmonbifo_t is defined in kernel/kernel.te, since genfscon
# statements could be only in base policy

type polaris_rmonbifo_tmp_t;
files_type(polaris_rmonbifo_tmp_t)

polaris_systemd_tmpfiles_tmp_filetrans(polaris_rmonbifo_tmp_t, dir, "rmonbifo")

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#

/bootflash/sdavc(/.*)? gen_context(system_u:object_r:polaris_sdavc_proxy_files_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissdavcproxy.fc
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# polarisodm file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
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#

/usr/bin/os/conf/auto_upgrade_client.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/usr/bin/os/conf/auto_upgrade_trigger.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.fc
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#
# polariswstatsd file contexts place holder

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswstatsd.fc
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#

/usr/binos/conf/bexecute.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
# still exists for backward compatibility
/tmp/etc/bexecute -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/bexec.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/brelay -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/ioucon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/bin/runin.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runin_exec_proc.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/runon.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/in.telnetd.sh -- gen_context(system_u:object_r:polaris_bexecute_exec_t,s0)
/usr/binos/conf/brelay_console.sh -- gen_context(system_u:object_r:polaris_bconsole_exec_t,s0)

# mcp_chvrf.sh used by some systemd units to switch vrf (ip namespace)
# of xinetd that drives brelay service
/usr/binos/conf/mcp_chvrf.sh -- gen_context(system_u:object_r:polaris_chvrf_exec_t,s0)

# used by "request platform software system shell" CLI
/usr/binos/conf/mcp_record_shell.sh -- gen_context(system_u:object_r:polaris_platform_shell_exec_t,s0)
/usr/binos/conf/mcp_shell.sh -- gen_context(system_u:object_r:polaris_shell_exec_t,s0)

# used by "sh pla so process memory r0 name iosd maps" CLI
/usr/binos/conf/mcp_process_maps.sh -- gen_context(system_u:object_r:polaris_process_maps_exec_t,s0)

# used by "req platform software console attach switch standby R0" CLI
/usr/binos/conf/mcp_console_attach.sh -- gen_context(system_u:object_r:polaris_mcp_console_attach_exec_t,s0)
/usr/binos/bin/ioucon -- gen_context(system_u:object_r:polaris_ioucon_exec_t,s0)

# ngio_module_session.sh used by "hw-module session" CLI
/usr/binos/conf/ngio_module_session.sh -- gen_context(system_u:object_r:polaris_ngio_module_session_exec_t,s0)

# used by "upgrade rom-monitor capsule primary switch 1 R0" CLI
/usr/binos/conf/cat9k-primary-capsule-upgrade.sh --
gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/usr/binos/conf/cat9k-capsule-upgrade.sh -- gen_context(system_u:object_r:polaris_capsule_upgrade_exec_t,s0)

/mnt/sd3/user/capsule-upgrade.log -- gen_context(system_u:object_r:polaris_capsule_upgrade_log_t,s0)
/usr/binos/conf/mcp_dmesg_service.sh -- gen_context(system_u:object_r:polaris_mcp_dmesg_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbexecute.fc
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#
#
## <summary>Polaris wnecd Policy Rules.</summary>
#
### <summary>Polaris wnecd Policy Rules.</summary>

### <summary>
## Read files under /mnt/images/...these are related to AccessPoint images
### </summary>
## <param name="domain">
## Domain allowed access.
### </param>

interface(`polaris_wlc_ap_images_read',`
    gen_require(
        type polaris_wlc_ap_images_t;
read_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
read_link_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
list_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
allow $1 polaris_wlc_ap_images_t:file map;
}

## <summary>
##     Manage files under /mnt/images/...these are related to AccessPoint images
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface('polaris_wlc_ap_images_manage',
    gen_require(
        type polaris_wlc_ap_images_t;
        type mnt_t;
    )
)

manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_link_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_dirs_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)

# transition when /mnt/images is created
filetrans_pattern($1, mnt_t, polaris_wlc_ap_images_t, dir, "images")
}

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#

## <summary>Polaris esg_tam_cfg Policy Rules.</summary>

#################################################################
## <summary>
##      Getattr dirs pvp temporary directories in /tmp.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>

interface('polaris_tam_getattrs_tmp_dirs',
    gen_require(
        type tmp_t;
        type polaris_tam_tmp_t;
    )
    
    getattr_dirs_pattern($1, tmp_t, polaris_tam_tmp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisesgtamcfg.if
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#

## <summary>Polaris MQIPC Policy Rules.</summary>

########################################################################
# Polaris mqipc (infra/mqipc)
########################################################################

########################################################################
## <summary>
##      Make specified domain as one of mqipc types.
## </summary>
## <param name="domain">
##      <summary>
##      The domain serving as polaris_mqipc type
##      </summary>
## </param>

interface('polaris_mqipc_type',
    gen_require(
        attribute polaris_mqipc;
    )
    typeattribute $1 polaris_mqipc;
    files_type($1)
Manage mqipc shared memory file in /dev/shm directory

<param name="domain">
  Domain allowed access.
</param>

<param name="mqipc_label">
  Mqipc file label.
</param>

<param name="object">
  Mqipc channel file name stem. It is used to derive set of file names used by MQIPC.
</param>

interface(`polaris_mqipc_create_name',
  `gen_require(`
type tmpfs_t;
  type tmp_t;
`');
  manage_files_pattern($1, tmpfs_t, $2)
  allow $1 $2:file map;
  type_transition $1 tmpfs_t : file $2 "mq.-$3";
  manage_fifo_files_pattern($1, tmp_t, $2)
  type_transition $1 tmp_t : fifo_file $2 "mq_ene_fifo.-$3";
  type_transition $1 tmp_t : fifo_file $2 "mq_fnf_fifo.-$3";
  fs_getattr_tmpfs($1)
`');

Manage mqipc shared memory file in /dev/shm/dir directory
where dir is also derived from object parameter used as stem. It should be used only in cases where mqipc server operates with chanell under subdirectory. TDL autogeneration does not pick up this so interface call should be added explicitely.

<param name="domain">
  Domain allowed access.
read_files_pattern($1, { tmpfs_t $2 }, $2)
write_files_pattern($1, { tmpfs_t $2 }, $2)
read_fifo_files_pattern($1, { tmp $2 }, $2)
write_fifo_files_pattern($1, { tmp $2 }, $2)
fs_getattr_tmpfs($1)
allow $1 $2:file map;
')

Found in path(s):
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#

## <summary>Polaris issu_stack Policy Rules.</summary>

########################################
## <summary>
##      Manage tmp files created by issu_stack.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_issu_stack_tmp_manage',``
    gen_require(
        type polaris_issu_stack_tmp_t;
    )

    manage_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
    manage_lnk_files_pattern($1, polaris_issu_stack_tmp_t, polaris_issu_stack_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisissustack.if
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#

## <summary>Polaris Tmp Boot Policy Rules.</summary>

# /tmp/sw/boot policy

## <summary>
##      Read /tmp/sw/boot files. Does not cover rmonbifo file under
## /tmp/sw/boot/rmonbifo. For those use polaris_rmonbifo_tmp_read interface
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_boot_tmp_read`,
  gen_require(`
  type polaris_boot_tmp_t;
  `)
  read_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)

## <summary>
##      Write /tmp/sw/boot files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_boot_tmp_write`,
  gen_require(`
  type polaris_boot_tmp_t;
  `)
  write_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
`)

## <summary>
## <summary>
## Map any polaris_boot_tmp_t file, needed during install.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_boot_tmp_map',`
    gen_require(`
        type polaris_boot_tmp_t;
    `)
    allow $1 polaris_boot_tmp_t:file map;
``)

## <summary>
## Manage /tmp/sw/boot files.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_boot_tmp_manage',`
    gen_require(`
        type polaris_boot_tmp_t;
    `)
    manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
``)

## <summary>
## Create an polaris_boot_tmp_t object in tmpfs_t, tmp_t directories.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>

```
## <param name="name" optional="true">
##	<summary>
##	The name of the object being created.
##	</summary>
## </param>
#
interface('polaris_boot_tmp_filetrans',
gen_require(`
type polaris_boot_tmp_t;
')
fs_tmpfs_filetrans($1, polaris_boot_tmp_t, $2, $3)
files_tmp_filetrans($1, polaris_boot_tmp_t, $2, $3)
')

+++++++++++++++++++++++++++++++++++++++++++++++++++++
## <summary>
##      Manage partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_rommon_device_manage',
gen_require(`
type device_t;
type polaris_rommon_device_t;
')
manage_blk_files_pattern($1, device_t, polaris_rommon_device_t)
manage_chr_files_pattern($1, device_t, polaris_rommon_device_t)
')

+++++++++++++++++++++++++++++++++++++++++++++++++++++
## <summary>
##      Read partition disk device that contains rommon image.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_rommon_device_read',
gen_require(`
type device_t;
type polaris_rommon_device_t;
')
read_blk_files_pattern($1, device_t, polaris_rommon_device_t)
read_chr_files_pattern($1, device_t, polaris_rommon_device_t)

######################################
## <summary>
##      Manage /bootflash/prst_sync/reload_info
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//summary>
## </param>
#
interface('polaris_boot_file_manage',
    gen_require(
        type polaris_boot_file_t;
    )
    manage_files_pattern($1, polaris_boot_file_t, polaris_boot_file_t)
)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.if
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#
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#
policy_module(polariscedgetanman, 1.0);

# why /usr/binos/conf/cedge-tanman.sh is not described in TDL?
polaris_process_domain_template(ceedge_tanman)

polaris_boot_tmp_read(polaris_cedge_tanman_t)
polaris_chasfs_read(polaris_cedge_tanman_t)
polaris_cpld_read(polaris_cedge_tanman_t)
polaris_read_debug_conf(polaris_cedge_tanman_t)
polaris_use_btrace_fifo(polaris_cedge_tanman_t)
corecmd_exec_bin(polaris_cedge_tanman_t)
corecmd_exec_shell(polaris_cedge_tanman_t)
auth_use_nsswitch(polaris_cedge_tanman_t)
# /tmp/tan handling
type polaris_cedge_tanman_tmp_t;
files_tmp_file(polaris_cedge_tanman_tmp_t)
gen_require(
    type tmp_t;
')
manage_dirs_pattern(polaris_cedge_tanman_t, tmp_t, polaris_cedge_tanman_tmp_t)
manage_fifo_files_pattern(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, polaris_cedge_tanman_tmp_t)
files_tmp_filetrans(polaris_cedge_tanman_t, polaris_cedge_tanman_tmp_t, dir, "tan")

# calls du -sk /tmp/xml/System
fs_getattr_tmpfs(polaris_cedge_tanman_t)

# work with /tmp/xml
polaris_cedge_xml_tmp_manage(polaris_cedge_tanman_t)

# work with /tmp/tmp
polaris_cedge_tmp_manage(polaris_cedge_tanman_t)

polaris_btrace_tmppub_read(polaris_cedge_tanman_t)

allow polaris_cedge_tanman_t self:capability sys_resource;

# calls nice
allow polaris_cedge_tanman_t self:process setsched;

# runs inotifywait -mrq --format %f: -e moved_to /bootflash/tracelogs
# and removes files in /bootflash/tracelogs
polaris_btrace_persistent_data_manage(polaris_cedge_tanman_t)

# runs ps -eaf
# ps needs access to proc_t
kernel_read_system_state(polaris_cedge_tanman_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_tanman_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_tanman_t)

# watch over /bootflash/tracelogs
polaris_btrace_data_watch(polaris_cedge_tanman_t)

# watches over /tmp for /tmp/bootted appearence
gen_require(
    type tmp_t;
')
allow polaris_cedge_tanman_t tmp_t:dir watch;
No license file was found, but licenses were detected in source scan.

# Aug 2020, Sridhar
#
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#

## <summary>Polaris tlscd process Policy Rules.</summary>

## <summary>
##      Allow the specified domain to manage UDS socket
## files. I.e /tmp/tlscd/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_tlscd_uds_manage`,
    gen_require(
        type polaris_tlscd_uds_t;
    )
    manage_sock_files_pattern($1, polaris_tlscd_uds_t, polaris_tlscd_uds_t)
)

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

dnl
dnl Copyright (c) 2020 by Cisco Systems, Inc.
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dnl
dnl Same as Nyquist
dnl
dnl Nyquist Platform Max Bay Limits
dnl max_bay_map_set(`rp`, `per_bay`, 0)
dnl max_bay_map_set(`cc`, `per_bay`, 0)
dnl max_bay_map_set(`fp`, `per_bay`, 0)

dnl in elastic scope each process has its own value
max_elastic_map_set(`rp`, `elastic`, BPROC_ODM, 0)
max_elastic_map_set(\"cc\", \"elastic\", BPROC_ODM, 0)
max_elastic_map_set(\"fp\", \"elastic\", BPROC_ODM, 0)

max_elastic_map_set(\"rp\", \"elastic\", BPROC_WNCD, 0)
max_elastic_map_set(\"cc\", \"elastic\", BPROC_WNCD, 0)
max_elastic_map_set(\"fp\", \"elastic\", BPROC_WNCD, 0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/msmaps.m4
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#
# September 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisunconfined Policy Rules.</summary>

********************************************************************************
## <summary>
##      Make the specified type usable
##      to be conditionally unconfined.
## </summary>
## <param name="domain">
##      <summary>
##      Type to be used for conditionally unconfined.
##      </summary>
## </param>
#
interface('polaris_domain_storage_unconfined_type',
        gen_require(
            'attribute polaris_storage_unconfined_type;
        
        typeattribute $1 polaris_storage_unconfined_type;
        ')
    )

********************************************************************************
## <summary>
##Mark domain unconfined, if polaris_unconfined build
## macro is defined. Or if polaris_unconfined_conditional
## macro is defined make domain unconfined only if
## polaris_unconfined_all SELinux boolean is set on.
## </summary>
## <param name="domain">
## Domain allowed access.

### Interface

```c
interface(`polaris_domain_maybe_unconfined',
    ifdef(`polaris_unconfined',
        unconfined_domain($1)
    )

    ifdef(`polaris_unconfined_conditional',
        polaris_domain_storage_unconfined_type($1)
        tunable_policy(`polaris_unconfined_all',
            polaris_unconfined_domain($1)
        )
    )

    )

#implicitly confined domain being made permissive
permissive $1;
)
```

```
########################################
## Mark iosd domain unconfined, if polaris_iosd_unconfined build macro is defined. Or if polaris_iosd_unconfined_conditional macro is defined make domain unconfined only if polaris_unconfined_iosd SELinux boolean is set on.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_iosd_maybe_unconfined',
    ifdef(`polaris_iosd_unconfined',
        unconfined_domain($1)
    )

    ifdef(`polaris_iosd_unconfined_conditional',
        polaris_domain_storage_unconfined_type($1)
        tunable_policy(`polaris_unconfined_iosd',
            polaris_unconfined_domain($1)
        )
    )

    )
```

```
## <summary>
## Unconfined access to kernel module resources.
## Like kernel_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_kernel_unconfined',
  gen_require('`
  attribute proc_type;
    attribute sysctl_type;
    type kernel_t;
    type unlabeled_t;
    type proc_kcore_t;
    type proc_kmsg_t;
`)
  allow $1 [ proc_type - proc_kcore_t - proc_kmsg_t ] :{ file } ~entrypoint;
  allow $1 [ proc_type - proc_kcore_t - proc_kmsg_t ]:{ dir lnk_file } *;

  allow $1 sysctl_type:{ file } ~entrypoint;
  allow $1 sysctl_type:{ dir lnk_file } *;

  allow $1 kernel_t:system *;

  allow $1 unlabeled_t:{ dir lnk_file sock_file fifo_file chr_file blk_file } *;
  allow $1 unlabeled_t:file ~entrypoint;
  allow $1 unlabeled_t:filesystem *;
  allow $1 unlabeled_t:association *;
  allow $1 unlabeled_t:packet *;
  allow $1 unlabeled_t:process ~{ ptrace transition dyntransition execmem execstack execheap };}

# LOOK AT ME
# kernel_load_module($1)
')

## <summary>
## Unconfined access to network objects.
## Like corenet_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## <summary>
The domain allowed access.
</summary>
## </param>
#
interface(`polaris_corenet_unconfined`,
gen_require(`
    attribute node_type;
    attribute netif_type;
    attribute packet_type;
    attribute port_type;
')

allow $1 node_type:node *;
allow $1 netif_type:netif *;
allow $1 packet_type:packet *
allow $1 port_type:dccp_socket { send_msg recv_msg name_connect }
allow $1 port_type:tcp_socket { send_msg recv_msg name_connect }
allow $1 port_type:udp_socket { send_msg recv_msg }

# Bind to any network address.
allow $1 port_type:{ dccp_socket tcp_socket udp_socket rawip_socket } name_bind;
allow $1 node_type:{ dccp_socket tcp_socket udp_socket rawip_socket } node_bind;
')

########################################
## <summary>
##	Unconfined access to devices.
## Like dev_unconfined but without typeattribute use.
##
</summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
##</summary>
## </param>
#
interface(`polaris_dev_unconfined`,
gen_require(`
    attribute device_node;
    type memory_device_t;
    type mtrr_device_t;
')

allow $1 self:capability sys_rawio;
allow $1 { device_node - memory_device_t } :{ blk_file lnk_file } *;
allow $1 { device_node - memory_device_t } :{ file chr_file } ~{ execmod entrypoint };
allow $1 mtrr_device_t:file ~{ execmod entrypoint };
dev_getattr_all($1)

')

###################################################
## <summary>
## Unconfined access to domains.
## Like domain_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_domain_unconfined',
gen_require(''

  attribute domain;
')

# Use/sendto/connectto sockets created by any domain.
allow $1 domain:{ socket_class_set socket key_socket } *;

allow $1 domain:system all_system_perms;
# Use descriptors and pipes created by any domain.
allow $1 domain:fd use;
allow $1 domain:fifo_file rw_file_perms;
allow $1 $1:dbus send_msg;

# Act upon any other process.
allow $1 domain:process ~{ ptrace transition dyntransition execmem execstack execheap setcurrent };
allow $1 domain:process ptrace;

# Create/access any System V IPC objects.
allow $1 domain:{ sem msgq shm } *;
allow $1 domain:msg { send receive };

# For /proc/pid
allow $1 domain:dir list_dir_perms;
allow $1 domain:file rw_file_perms;
allow $1 domain:link_file { read_link_file_perms ioctl lock };

# act on all domains keys
allow $1 domain:~key *;
# pass constraints
# typeattribute $1 can_change_object_identity;
# typeattribute $1 set_curr_context;
# typeattribute $1 process_uncond_exempt;

# mcs_process_set_categories($1)

# userdom_filetrans_home_content($1)
'

########################################
## <summary>
##	Unconfined access to files.
## Like files_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
#
# interface('polaris_files_unconfined',
# gen_require(
#         attribute file_type;
# type shadow_t;
#
# Create/access any file in a labeled filesystem;
# allow $1 { file_type - shadow_t }:{ file chr_file } ~{ execmod entrypoint relabelto };
# allow $1 file_type:{ dir lnk_file sock_file fifo_file blk_file } *;
# allow $1 file_type:service *;

# Mount/unmount any filesystem with the context= option.
# allow $1 file_type:filesystem all_filesystem_perms;
#

########################################
## <summary>
##	Unconfined access to filesystems
## Like fs_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##<summary>
##Domain allowed access.
##</summary>
## </param>
#
# interface('polaris_fs_unconfined',

gen_require("
    attribute filesystem_type;
"
)

allow $1 filesystem_type:filesystem all_filesystem_perms;

# Create/access other files. fs_type is to pick up various
# pseudo filesystem types that are applied to both the filesystem
# and its files.
allow $1 filesystem_type:{ file } -entrypoint;
allow $1 filesystem_type:{ dir lnk_file sock_file fifo_file chr_file blk_file } *
"
)

########################################
## <summary>
##	Unconfined access to the SELinux kernel security server.
## Like selinux_unconfined but without typeattribute use.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
interface('polaris_selinux_unconfined','
    gen_require("'
        attribute boolean_type;
        type security_t;
        type secure_mode_policyload_t;
    '
)

    # use SELinuxfs
    allow $1 security_t:dir list_dir_perms;
    allow $1 security_t:file rw_file_perms;
    allow $1 boolean_type:file read_file_perms;
    allow $1 { boolean_type -secure_mode_policyload_t }:file write_file_perms;

    # Access the security API.
    allow $1 security_t:security ~{ load_policy setenforce setbool setsecparam };

    ifdef('distro_rhel4','
        # needed for systems without audit support
        auditallow $1 security_t:security setbool;
    '
)

    #setlinux_set_all_booleans($1)
    #setlinux_load_policy($1)
#selinux_set_parameters($1)
#selinux_set_enforce_mode($1)
')

########################################
## <summary>
## Make the specified domain unconfined.
## </summary>
## <param name="domain">
## Domain to make unconfined.
## </param>
#
interface(`polaris_unconfined_domain',
  gen_require(
  class dbus all_dbus_perms;
  class nscd all_nscd_perms;
  class passwd all_passwd_perms;
  ')

# Use any Linux capability.
allow $1 self:capability ~{ sys_module };
allow $1 self:capability2 ~{ mac_admin mac_override };
allow $1 self:fifo_file { manage_fifo_file_perms relabelfrom relabelto };

# Transition to myself, to make get_ordered_context_list happy.
allow $1 self:process { dyntransition transition };

# Write access is for setting attributes under /proc/self/attr.
allow $1 self:file rw_file_perms;
allow $1 self:dir rw_dir_perms;

# Userland object managers
allow $1 self:nscd all_nscd_perms;
allow $1 self:dbus all_dbus_perms;
allow $1 self:passwd all_passwd_perms;
allow $1 self:association all_association_perms;
allow $1 self:socket_class_set create_socket_perms;

polaris_kernel_unconfined($1)
polaris_corenet_unconfined($1)
polaris_dev_unconfined($1)
polaris_domain_unconfined($1)
polaris_files_unconfined($1)
polaris_fs_unconfined($1)
polaris_selinux_unconfined($1)

systemd_config_all_services($1)

    # in unconfined_domain_noaudit its under not deny_execmem
    allow $1 self:process execmem;

#domain_mmap_low($1)
#
#ubac_process_exempt($1)
#
#optional_policy(`
#auth_unconfined($1)
#`)
#
#optional_policy(`
## Communicate via dbusd.
#dbus_system_bus_unconfined($1)
#dbus_unconfined($1)
#`)
#
#optional_policy(`
#ipsec_setcontext_default_spd($1)
#ipsec_match_default_spd($1)
#`)
#
#optional_policy(`
#nscl_unconfined($1)
#`)
#
#optional_policy(`
#seutil_create_bin_policy($1)
#seutil_relabelto_bin_policy($1)
#`)
#
#optional_policy(`
#storage_unconfined($1)
#`)
#
#optional_policy(`
#xserver_unconfined($1)
#`)
`

########################################################################
## <summary>
## Make the specified domain able to work with cpp /tmp/cpp_ifdev_rep and
## /tmp/cpp_ifdev_req pipe files.
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_unconfined_service_fifo_file_manage',
         
         gen_require(
             type unconfined_service_t;
         )

         manage_fifo_files_pattern($1, unconfined_service_t, unconfined_service_t)
      )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisunconfined.if
No license file was found, but licenses were detected in source scan.

# # March 2019, Shikhar Dogra
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#

policy_module(polarisfmancc, 1.0);

gen_require(
   type polaris_fman_cc_t;
)

polaris_btrace_data_manage(polaris_fman_cc_t)
polaris_crft_data_manage(polaris_fman_cc_t)
polaris_chasfs_manage(polaris_fman_cc_t)
polaris_tdlresolve_read(polaris_fman_cc_t)
polaris_tdlldb_list_dirs(polaris_fman_cc_t)
polaris_cpld_read(polaris_fman_cc_t)
polaris_lua_read(polaris_fman_cc_t)
polaris_flashlib_read(polaris_fman_cc_t)
polaris_cpld_dev_use(polaris_fman_cc_t)

# allow to send message to /dev/log
logging_send_syslog_msg(polaris_fman_cc_t)

# ISR Nightwatch module accesses libraries compiled with icc
polaris_icc_broken_relocations(polaris_fman_cc_t)
# cpp bleeds into switching platforms through fman_fp and fed
# apparently even on nyquist fed creates /tmp/cpp_anon_db
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

type polaris_iosd_fmanrp_mqipc_t;
polaris_mqipc_type(polaris_iosd_fmanrp_mqipc_t)

polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc0)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc1)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc2)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc3)
polaris_mqipc_create_name(polaris_fman_cc_t, polaris_iosd_fmanrp_mqipc_t, iosd-thr-fmanrp-R0:0-cc4)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.te
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2020, Swati Kumari
dnl
dnl Copyright (c) 2018-2020 by Cisco Systems, Inc.
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dnl
dnl rpx86 Platform Max Bay Limits
max_bay_map_set(`rp', `per_bay', 0)
max_bay_map_set(`cc', `per_bay', 5)
max_bay_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `per_bay', 0)
min_bay_ripc_map_set(`cc', `per_bay', 1)
min_bay_ripc_map_set(`fp', `per_bay', 0)

max_bay_ripc_map_set(`rp', `per_bay', 2)
max_bay_ripc_map_set(`cc', `per_bay', 6)
max_bay_ripc_map_set(`fp', `per_bay', 2)

min_bay_ripc_map_set(`rp', `global', 0)
min_bay_ripc_map_set(`cc', `global', 1)
min_bay_ripc_map_set(`fp', `global', 0)

max_bay_ripc_map_set(`rp', `global', 2)
max_bay_ripc_map_set(`cc', `global', 6)
max_bay_ripc_map_set(`fp', `global', 2)

Found in path(s):
No license file was found, but licenses were detected in source scan.

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#

## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/rpx86maps.m4
No license file was found, but licenses were detected in source scan.

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#
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#

/tmp/tmppub(/.*)? gen_context(system_u:object_r:polaris_btrace_tmppub_t,s0)

# btrace utility to rotate logs
/usr/binos/bin/btman_rotate_immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta -- gen_context(system_u:object_r:polaris_btman_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#

policy_module(polarisnvram, 1.0):

####################################################################
# NVRAM
####################################################################
ifdef(`ngwc_family',`
# suppose that in edison case nvram is not in partition
type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
')

ifdef(`blackheart_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`sparrow_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`aventus_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`cabo_platform',`
gen_require(`
    type polaris_nvram_file_t;
    type polaris_iosd_t;
')
files_type(polaris_nvram_file_t)
# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

ifdef(`petra_platform',`

type polaris_nvram_file_t;
files_type(polaris_nvram_file_t)
# suppose that in edison case nvram is not in partition

gen_require(`
    
    type polaris_iosd_t;
')

# allow nvram file reside on persistent storage
polaris_pfile_type(polaris_nvram_file_t)
allow polaris_iosd_t polaris_nvram_file_t:filesystem getattr;
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisnvram.te
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

### <summary>Polaris cxp Policy Rules</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscxp.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarischasfs, 1.0);

###############################################################
# Chasfs policy
###############################################################
gen_require(`
    
    attribute domain;
')
type polaris_chasfs_t;
files_type(polaris_chasfs_t)

files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chassis")
files_tmp_filetrans(domain, polaris_chasfs_t, lnk_file, "chasfs")
# LOOK AT ME: on ultra /tmp/cc/chasfs is created as directory, but
# on other platforms it is symbolic to /tmp/chassis/local/cc/chasfs
# as it happens for rp and fp. Would it be better to fix ultra
# script(s)?
files_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

# cpld-symlink.service, creates /tmp/chassis while /tmp is
# still tmpfs_t, ie before systemd-tmpfiles runs and had a
# chance to set tmp_t label on /tmp

gen_require(
  type initrc_t;
')
fs_tmpfs_filetrans(initrc_t, polaris_chasfs_t, dir, "chassis")
init_script_tmp_filetrans(domain, polaris_chasfs_t, dir, "chasfs")

polaris_process_domain_template(chasync)
corecmd_exec_bin(polaris_chasync_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_chasync_t)
polaris_btrace_data_manage(polaris_chasync_t)
polaris_chasfs_manage(polaris_chasync_t)
polaris_cpld_read(polaris_chasync_t)
polaris_boot_tmp_read(polaris_chasync_t)
polaris_read_debug_conf(polaris_chasync_t)
polaris_rmonbifo_tmp_read(polaris_chasync_t)
polaris_proc_rmonbifo_read(polaris_chasync_t)
polaris_disk_bootflash_read_lnk(polaris_chasync_t)
polaris_disk_harddisk_read_lnk(polaris_chasync_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_chasync_t)

allow polaris_chasync_t self:capability sys_resource;
allow polaris_chasync_t self:process setpgid;

# access of crashinfo dir for the domain
polaris_disk_crashinfo_getattr(polaris_chasync_t)

# allow access of /tmp/rp/chasync for the polaris chasync_t domain to
# create/write/read dirs/files with domain specific context
type polaris_chasync_tmp_t;
files_type(polaris_chasync_tmp_t)
files_tmp_file(polaris_chasync_tmp_t)
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)
manage_fifo_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
files_tmp_filetrans(polaris_chasync_t, polaris_chasync_tmp_t, file)
manage_files_pattern(polaris_chasync_t, polaris_chasync_tmp_t, polaris_chasync_tmp_t)

fs_getattr_tmpfs(polaris_chasync_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_t)

gen_require(
    type rsync_t;
    type init_t;
    type rsync_tmp_t;
')
rsync_entry_domtrans(polaris_chasync_t, rsync_t)
allow rsync_t polaris_chasync_t:process sigchld;
# file descriptor leak when rsync is called
allow rsync_t init_t:unix_stream_socket ioctl;

# upon exec rsync inherits chasync's stdout/stderr fifo files
allow rsync_t polaris_chasync_t:fifo_file { getattr write };
# in chasync_prepost_rsync.sh, CHASYNC_PID_DIR (rsync pid files) is deleted by rsync
fs_getattr_tmpfs(rsync_t)

# allow file:map for rsync_tmp_t
allow rsync_t rsync_tmp_t:file map;
dev_getattr_generic_blk_files(rsync_t)
dev_getattr_loop_control(rsync_t)
# need access to /usr/bin/mount
mount_entry_type(rsync_t)
# need access to dev/sda1
storage_getattr_fixed_disk_dev(rsync_t)
ifdef(`ngwc_family',

# Read and write RPC sysctls
kernel_rw_rpc_sysctls(rsync_t)
mount_domtrans(rsync_t)
fstools_domtrans(rsync_t)
# Create/read/write on fixed device disk nodes
storage_manage_fixed_disk(rsync_t)
#stat -f -L -c %T /mnt/usb0
polaris_getattr removable(rsync_t)
storage_filetrans_all_named_dev(rsync_t)
')

#============= polaris_dyncfg ==============
polaris_dyncfg_tmp_read(rsync_t)

#============= polaris_chasync_t ==============
polaris_btrace_persistent_data_search(polaris_chasync_t)
# chasync.sh code executes mv command
allow polaris_chasync_t self:process { setfscreate };
# chasync.sh code executes ping command to check if ping works before trying rsync for the first time
netutils_domtrans_ping(polaris_chasync_t)
# chasync.sh code in wlc saves logs during cleanup to /var/log/chasync
type polaris_chasync_log_t;
logging_log_file(polaris_chasync_log_t)
manage_files_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_log_t, polaris_chasync_log_t)
logging_log_filetrans(polaris_chasync_t, polaris_chasync_log_t, dir, "chasync")

########################################################################
# chasfs_boottime script
########################################################################

polaris_process_domain_template(chasfs_boottime)

unconfined_domain(polaris_chasfs_boottime_t)

# chasfs_boottime.sh starts cman_fp or cmand with -C option; allow its
# transition to fman_fp_t type
optional_policy('polaris_cm_rp_domtrans(polaris_chasfs_boottime_t)
')
optional_policy('polaris_cm_fp_domtrans(polaris_chasfs_boottime_t)
')
optional_policy('  
polaris_cm_cc_domtrans(polaris_chasfs_boottime_t)  
')

ifdef('ngwc_family',`

# Allow iox_polaris.conf read  
polaris_caf_files_read(polaris_chasync_t)

# Allow losetup in helper script  
fstools_domtrans(polaris_chasync_t)

# Manage alternate hdd files  
polaris_iox_alt_hdd_manage(polaris_chasync_t)

# Allow console logging  
term_open_unallocated_ttys(polaris_chasync_t)

# Allow logger which is used for syslog message  
allow polaris_chasync_t self:unix_dgram_socket { connect create };  
logging_send_syslog_msg(polaris_chasync_t)

# logger needs to run pidof  
dev_read_sysfs(polaris_chasync_t)  
domain_read_all_domains_state(polaris_chasync_t)

')

type polaris_chasync_files_t;  
files_type(polaris_chasync_files_t)  
polaris_pfile_type(polaris_chasync_files_t)

optional_policy('  
gen_require('  
    type polaris_disk_harddisk_t;  
    type polaris_disk_bootflash_t;  
')  
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "sys_report")  
filetrans_pattern(polaris_chasync_t, [polaris_disk_bootflash_t polaris_disk_harddisk_t], polaris_chasync_files_t, dir, "fp_cc_crash")  
filetrans_pattern(polaris_chasync_t, polaris_disk_bootflash_t, polaris_chasync_files_t, file, "user_input_custom.xml")

# chasync can manage files inside of its own polaris_disk_chasync_t directories  
manage_dirs_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t)  
manage_files_pattern(polaris_chasync_t, polaris_chasync_files_t, polaris_chasync_files_t, polaris_chasync_files_t)
allow polaris_chasync_t polaris_chasync_files_t:dir watch;
polaris_install_disk_read(polaris_chasync_t)
')

optional_policy('  
# chasync invoked sys_report does ls /tmp/ufs/crashinfo  
polaris_ncd_tmp_read(polaris_chasync_t)
')

# chasync moves inv files from /tftp/inv to chasfs directory  
allow polaris_chasync_t self:capability { chown fowner fsetid };
gen_require('  
type brctl_t;
')
# pd_iox.sh invokes brctl which needs access to chasfs  
polaris_chasfs_read(brctl_t)

#allow chasync to unmount flash partition  
mount_domtrans(polaris_chasync_t)

sysnet_domtrans_ifconfig(polaris_chasync_t)

# chasync.sh needs read access to /bootflash/.installer/install_issu_state  
polaris_disk_install_read(polaris_chasync_t)

Found in path(s):  
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarischasfs.te  
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#  
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#  
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#

policy_module(polariscpp, 1.0);

##########################################################################  
# Polaris cpp (ultra)  
##########################################################################

type polaris_cpp_device_t;
dev_node(polaris_cpp_device_t)

# deals with /dev/shm files semaphors, etc  
type polaris_cpp_tmpfs_t;
files_tmpfs_file(polaris_cpp_tmpfs_t)
attribute polaris_cpp_domain;
fs_tmpfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
manage_files_pattern(polaris_cpp_domain, tmpfs_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
polaris_cpp_tmpfs_manage(polaris_cpp_domain)
polaris_cerr_shm_manage(polaris_cpp_domain)

# on TSN ucode_dram lives in hugetlbfs
fs_hugetlbfs_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file)
gen_require(
    type hugetlbfs_t;
')
manage_files_pattern(polaris_cpp_domain, hugetlbfs_t, polaris_cpp_tmpfs_t)

# deals with cpp /tmp files
type polaris_cpp_tmp_t;
files_tmp_file(polaris_cpp_tmpfs_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmpfs_t, fifo_file, "cpp_ifdev_req")
manage_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmpfs_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmpfs_t)
allow polaris_cpp_domain polaris_cpp_tmpfs_t:file map;
fs_getattr_tmpfs(polaris_cpp_domain)

# overlord/neptune access /sys/bus/pci/devices/0000:01:00.0/resource0
# when initializing the CPP DMAP library
optional_policy(
    polaris_cpp_cavium_dma_map(polaris_cpp_domain)
')

type polaris_i95_device_t;
dev_node(polaris_i95_device_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscpp.te
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#
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#
#
# some platforms have /usr/binos/bin/fman_fp as hardlink to
# /usr/binos/bin/fman_fp_image
/usr/binos/bin/fman_fp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_vwlc_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)
/usr/binos/bin/fman_fp_us_ledp -- gen_context(system_u:object_r:polaris_fman_fp_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.fc
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# July 2017, Victor Kamensky
#
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#
## <summary>Polaris ngiolite Policy Rules.</summary>
#
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_smartctl_domtrans',`
gen_require(`
    type polaris_smartctl_t, polaris_smartctl_exec_t;
``
')
corecmd_search_bin($1)
domtrans_pattern($1, polaris_smartctl_exec_t, polaris_smartctl_t)
``
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.if
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# February 2018, Manohar Hungund
#
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/dev/act2 -c gen_context(system_u:object_r:polaris_act2_device_t,s0)
/tmp/hw_entropy -- gen_context(system_u:object_r:polaris_hw_entropy_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariact2.fc
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#
# July 2017, Victor Kamensky
#
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#

policy_module(polariscmcc, 1.0);

gen_require('  
    type polaris_cm_cc_t;
')

polaris_btrace_data_manage(polaris_cm_cc_t)
polaris_crft_data_manage(polaris_cm_cc_t)
polaris_chasfs_manage(polaris_cm_cc_t)
polaris_tldresolve_read(polaris_cm_cc_t)
polaris_tlddb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polaris_lua_read(polaris_cm_cc_t)
polaris_flashlib_read(polaris_cm_cc_t)

polaris_cpld_dev_use(polaris_cm_cc_t)
polaris_proc_rmonbifo_read(polaris_cm_cc_t)

polaris_ripc_sman_ui_serv_connect(polaris_cm_cc_t)

optional_policy('  
    access to /dev/iocp0
    polaris_spa_dev_use(polaris_cm_cc_t)
')
optional_policy('  
    access to /dev/htdb[0-9]*
    polaris_htdp_dev_use(polaris_cm_cc_t)
')
# read /proc/cmdline
kernel_read_system_state(polaris_cm_cc_t)
# work with /dev/i2c devices
polaris_i2c_use(polaris_cm_cc_t)
polaris_obfl_data_read(polaris_cm_cc_t)
# cmcc module as part of init calls cmem_obfl_write_voltage_log(),
# which writes to obfl device.
polaris_obfl_data_manage(polaris_cm_cc_t)
# on vxe platform /obfl is symlink to /varied
ifdef(`vxe_family',`
polaris_disk_varied_list(polaris_cm_cc_t)
')

# on ling works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
dev_rw_sysfs(polaris_cm_cc_t)

ifdef(`crankshaft_family',`
# read,getattr, map access to /firmware/ files for Switzer-CC
polaris_firmware_read(polaris_cm_cc_t)
polaris_firmware_getattr(polaris_cm_cc_t)
polaris_firmware_map(polaris_cm_cc_t)
')

# allow objstore access
polaris_disk_objstore_read(polaris_cm_cc_t)

# get interface address cmlib_if_config_addr at cman/lib/cmlibmsgs/src/cmlib_eobc.c
allow polaris_cm_cc_t self:udp_socket { create ioctl };

# on utah need to get model info
optional_policy('polaris_dash_dev_use(polaris_cm_cc_t)
')

#access to /dev/dash_fpga device on fugazi platform
ifdef(`fugazi_platform',`
polaris_dash_dev_mcp_use(polaris_cm_cc_t)
')

#access to /dev/nutella_fpga device on nutella platform
optional_policy('polaris_nutella_fpga_dev_use(polaris_cm_cc_t)
')

# handle /tmp/pci files on utah
type polaris_pci_tmp_t;
files_tmp_file(polaris_pci_tmp_t)
# /tmp/pci/bus, /tmp/pci/vendor, /tmp/pci/device created by systemd unit
gen_require(
    type initrc_t;
    type unconfined_service_t;
    type tmp_t;
)

files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_pci_tmp_t, dir, "pci")
manage_dirs_pattern(initrc_t, tmp_t, polaris_pci_tmp_t)
manage_files_pattern(initrc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
manage_files_pattern(polaris_cm_cc_t, polaris_pci_tmp_t, polaris_pci_tmp_t)
logging_send_syslog_msg(polaris_cm_cc_t)

# cmcc module creates the PCI rescan shm mutex.
# /dev/shm/rescan_shm file.
type polaris_cm_cc_tmpfs_t;
files_tmpfs_file(polaris_cm_cc_tmpfs_t)
fs_tmpfs_filetrans(polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t, file)
manage_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
mmap_files_pattern(polaris_cm_cc_t, tmpfs_t, polaris_cm_cc_tmpfs_t)
dev_read_sysfs(polaris_cm_cc_t)
dev_getattr_sysfs_fs(polaris_cm_cc_t)
fs_getattr_tmpfs(polaris_cm_cc_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t
type polaris_cm_cc_tmp_t;
files_tmp_file(polaris_cm_cc_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_cc_tmp_t, dir, "udev-cc")
manage_files_pattern(polaris_cm_cc_t, polaris_cm_cc_tmp_t, polaris_cm_cc_tmp_t)
gen_require(
    type tmp_t;
)
manage_dirs_pattern(polaris_cm_cc_t, { tmp_t polaris_cm_cc_tmp_t }, polaris_cm_cc_tmp_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
    polaris_mokafpga_dev_use(polaris_cm_cc_t)
)
optional_policy(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_cc_t)
)

# on macallan need access to /dev/quack
optional_policy(
    polaris_quack_dev_use(polaris_cm_cc_t)
)
polaris_cpld_write(polaris_cm_cc_t)

optional_policy(
    # on starfleet access gettysburg_fpga
    polaris_gettysburg_fpga_dev_use(polaris_cm_cc_t)
)

# /dev/epactrlN on qwlc
optional_policy(
    polaris_epa_dev_use(polaris_cm_cc_t)
)

# /dev/luna_fpga on qwlc
optional_policy(
    polaris_luna_mbfpga_dev_use(polaris_cm_cc_t)
)

# /dev/astro on qwlc
optional_policy(
    polaris_astro_dev_use(polaris_cm_cc_t)
)

# /dev/huron_fpga on Sumatra
optional_policy(
    polaris_huron_dev_use(polaris_cm_cc_t)
)

type polaris_nim_xxd_tmp_t;
files_tmp_file(polaris_nim_xxd_tmp_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, file, "nim_xxd_present")
manage_files_pattern(polaris_cm_cc_t, polaris_nim_xxd_tmp_t, polaris_nim_xxd_tmp_t)
ifdef(`starfleet_platform',
    # In cmcc
    # cmcc_starfleet_act2_authentication_udi in cman/cc/src/cmcc_starfleet.c
    # cmcc_starfleet_cpuboard_act2_authentication_udi cman/cc/src/cmcc_starfleet.c
    # tam_lib_device_open infra/act2/tam_act2/tam_lib/src/tam_lib_device.c:
    polaris_act2_dev_use(polaris_cm_cc_t)
)

ifdef(`crankshaft_family',
    # modprobe sm_nim_adpt.ko for Switzer-CC
    modutils_domsdtrans_insmod(polaris_cm_cc_t)
    # /dev/sm_nim_adpt device files for Switzer-CC
    polaris_sm_nim_adpt_dev_use(polaris_cm_cc_t)
)

# Mapping permission for /dev/shm/<name>
ifdef(`crankshaft_family',`
  gen_require(
    type systemd_tmpfiles_t;
  )
mmap_files_pattern(systemd_tmpfiles_t, polaris_cm_cc_tmpfs_t, polaris_cm_cc_tmpfs_t)
')

# on ngwc cmcc needs to access /dev/chdrvmmmap for asic memory mapping
optional_policy(
  polaris_chdrvmmmap_dev_use(polaris_cm_cc_t)
')

ifdef(`vxe_family',`
  # bind to BMC_AGENT_CLIENT_PORT port from cman_tlv_init
corenets_tcp_bind_polaris_bmc_agent_client_port(polaris_cm_cc_t)
')

# allow /usr/binos/bin/cmcc to access /tmp/hd_sz
gen_require(
  type udev_tmp_t;
')
read_files_pattern(polaris_cm_cc_t, udev_tmp_t, udev_tmp_t)

# allow /usr/sbin/smartctl to be operated on fsadm_exec_t
fstools_exec(polaris_cm_cc_t)

# using existing interface "polaris_cm_rp_tmp_manager" for polaris_cm_cc_t
# to access /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manager(polaris_cm_cc_t)
files_tmp_filetrans(polaris_cm_cc_t, polaris_cm_rp_tmp_t, file, "cmlib_eeprom_sim_smartctl.out")

# allow access to /dev/nvme*
dev_nvme_chr_files_manage(polaris_cm_cc_t)
dev_nvme_blk_files_manage(polaris_cm_cc_t)

# access to /dev/ttyS0
term_use_unallocated_ttys(polaris_cm_cc_t)

Found in path(s):
  /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmcc.te
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#
# June 2017, Victor Kamensky
#
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#
## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if
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#

## <summary>Polaris polarissortfiles Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.if
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#
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#

## <summary>Polaris Storage Policy Rules.</summary>

# Persistent storage policy

# Make the specified type usable as default type for files
# in a Polaris persistent (bootflash, hardisk, etc) filesystem.
#
## <summary>
##
## Type to be used for files.
##
##</summary>
##
# interface(`polaris_disk_type`,
  files_type($1)
  gen_require(`
    attribute polaris_disk;
```
')
typeattribute $1 polaris_disk;
')

******************************************************************************
### <summary>
### Make the specified type usable for files
### in a Polaris persistent (bootflash, hardisk, etc)
### filesystem.
### </summary>
### <param name="type">
### Type to be used for files.
### </param>
#
interface('polaris_pfile_type',
    files_type($1)
    gen_require(
        attribute polaris_disk;
    )
    typeattribute $1 polaris_disk;
)

******************************************************************************
### <summary>
### Read any regular file/directory from persistent storage.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_persistent_read',
    gen_require(
        attribute polaris_disk;
    )
    read_files_pattern($1, polaris_disk, polaris_disk)
    read_lnk_files_pattern($1, polaris_disk, polaris_disk)
    list_dirs_pattern($1, polaris_disk, polaris_disk)
)

******************************************************************************
### <summary>
### Getattr of any regular file/directory from persistent storage.
### </summary>
### <param name="domain">
### <summary>
Domain allowed access.
</summary>
### </param>
#
interface(`polaris_persistent_getattr',
    gen_require('attribute polaris_disk;
')
list_dirs_pattern($1, polaris_disk, polaris_disk)
getattr_files_pattern($1, polaris_disk, polaris_disk)
getattr_lnk_files_pattern($1, polaris_disk, polaris_disk)
')

#########################################################################
### <summary>
## Listdir of any regular directory from persistent storage.
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_persistent_list_dirs',
    gen_require('attribute polaris_disk;
')
list_dirs_pattern($1, polaris_disk, polaris_disk)
')

#########################################################################
### <summary>
## Write/read any regular file/directory from persistent storage.
### </summary>
### <param name="domain">
### <summary>
## Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_persistent_manage',
    gen_require('attribute polaris_disk;
')
manage_files_pattern($1, polaris_disk, polaris_disk)
manage_dirs_pattern($1, polaris_disk, polaris_disk)
manage_lnk_files_pattern($1, polaris_disk, polaris_disk)

#########################
## <summary>
## Map any regular file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_persistent_map`,
   gen_require(
      attribute polaris_disk;
   )
   allow $1 polaris_disk:file map;
)

# debug.conf
#

#########################
## <summary>
## Read debug.conf from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_read_debug_conf`,
   gen_require(
      type polaris_debug_conf_t;
      type polaris_disk_bootflash_t;
      type polaris_disk_harddisk_t;
      type tmp_t;
   )
   read_files_pattern($1, polaris_disk_bootflash_t, polaris_debug_conf_t)
   read_files_pattern($1, polaris_disk_harddisk_t, polaris_debug_conf_t)
   read_files_pattern($1, tmp_t, polaris_debug_conf_t)
   read_lnk_files_pattern($1, tmp_t, polaris_debug_conf_t)
polaris_disk_bootflash_read_lnk($1)
)

# packages.conf

## <summary>
## Read packages.conf from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_read_packages_conf',
         gen_require(
             type polaris_packages_conf_t;
             type polaris_disk_bootflash_t;
             type polaris_disk_harddisk_t;
         )
         read_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
         read_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
)

## <summary>
## Manage packages.conf in persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
interface('polaris_manage_packages_conf',
         gen_require(
             type polaris_packages_conf_t;
             type polaris_disk_bootflash_t;
             type polaris_disk_harddisk_t;
         )
         manage_files_pattern($1, polaris_disk_bootflash_t, polaris_packages_conf_t)
         manage_files_pattern($1, polaris_disk_harddisk_t, polaris_packages_conf_t)
)

## <summary>
## Write/read any regular file/directory from /varied
## </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_disk_varied_manage',`
   gen_require(
      type polaris_disk_varied_t;
   )
   manage_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')

########################################################################
### <summary>
### read any regular file/directory from /varied
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_disk_varied_read',`
   gen_require(
      type polaris_disk_varied_t;
   )
   read_files_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
   list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')

########################################################################
### <summary>
### Search /varied directory
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_disk_varied_search',`
   gen_require(
      type polaris_disk_varied_t;
   )
   search_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
')
## <summary>
## List/read /varied directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_disk_varied_list`,
  gen_require(`
    type polaris_disk_varied_t;
  `)
  list_dirs_pattern($1, polaris_disk_varied_t, polaris_disk_varied_t)
`)

## <summary>
## Write/read/remove polaris_core_file_t file/directory from persistent storage.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_core_file_manage`,
  gen_require(`
    type polaris_core_file_t;
  `)
  allow $1 polaris_core_file_t:dir rmdir;
  manage_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
  allow $1 polaris_core_file_t:dir watch;
`)

## <summary>
## Search polaris_core_file_t dir
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
open source used in open source used in cisco identity services engine 3.2

```c
# interface('polaris_core_file_search',
    gen_require(
      type polaris_core_file_t;
    )
    search_dirs_pattern($1, polaris_core_file_t, polaris_core_file_t)
)

#######################################
## <summary>
##	Read/Open/Search polaris core file dir
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
#
interface('polaris_core_file_read',
    gen_require(
      type polaris_core_file_t;
    )
    allow $1 polaris_core_file_t:dir read;
    getattr_files_pattern($1, polaris_core_file_t, polaris_core_file_t)
)

#######################################
## <summary>
##	Get attrib of bootflash fifo file.
## </summary>
## <param name="domain">
##	Domain allowed access.
## </param>
#
#
interface('polaris_disk_bootflash_fifo_file_getattr',
    gen_require(
      type polaris_disk_bootflash_t;
    )
    getattr_fifo_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

#######################################
## <summary>
##	Get attrib of bootflash sock file.
## </summary>
```
## <summary>
## Domain allowed access.
## </summary>  
```
interface('polaris_disk_bootflash_sock_file_getattr',
    gen_require('type polaris_disk_bootflash_t;
    ')
    getattr_sock_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)
```

## <summary>
## Read links of polaris_disk_bootflash_t
## </summary>  
```
interface('polaris_disk_bootflash_read_lnk',
    gen_require('type polaris_disk_bootflash_t;
    ')
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)
```

## <summary>
## Search polaris_disk_bootflash_t dir
## </summary>  
```interface('polaris_disk_bootflash_search',
    gen_require('type polaris_disk_bootflash_t;
    ')
    search_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)```
### <summary>
## Write/read any regular file/directory under /csl_p_0/, /csl_p_1, /csl_s_0, and /csl_s_1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_disk_csl_manage',
    gen_require('`
    type polaris_disk_csl_p_t;
    type polaris_disk_csl_s_t;
`)
    manage_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    manage_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
`)

### <summary>
## Write/read any regular file/directory under /csl_p_0/, /csl_p_1, /csl_s_0, and /csl_s_1
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_disk_csl_read',
    gen_require('`
    type polaris_disk_csl_p_t;
    type polaris_disk_csl_s_t;
`)
    read_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
    read_lnk_files_pattern($1, polaris_disk_csl_p_t, polaris_disk_csl_p_t)
    read_lnk_files_pattern($1, polaris_disk_csl_s_t, polaris_disk_csl_s_t)
`)

### <summary>
## Write/read any regular file/directory under /objstore,
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_disk_objstore_manage',
#   gen_require(''
#      type polaris_disk_objstore_t;
#   ')
#   manage_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
#   read_lnk_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
# ')
#
interface('polaris_disk_objstore_read',
#   gen_require(''
#      type polaris_disk_objstore_t;
#   ')
#   read_files_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
#   list_dirs_pattern($1, polaris_disk_objstore_t, polaris_disk_objstore_t)
# ')
#
#########################################
## Read links of polaris_disk_harddisk_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_disk_harddisk_read_lnk',
#   gen_require(''
#      type polaris_disk_harddisk_t;
#   ')
#   read_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
# ')
#
#########################################
## Read harddisk files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
interface(`polaris_harddisk_read',``
    gen_require(`
        type polaris_disk_harddisk_t;
    `)
    read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
)`)

interface(`polaris_bootflash_read',``
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_link_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)`)

interface(`polaris_bootflash_manage',``
    gen_require(`
        type polaris_disk_bootflash_t;
    `)
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    manage_link_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    manage_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
Create an object in the `polaris_disk_bootflash_t` directories, with a private type using a type transition.

```c
interface(`polaris_bootflash_filetrans',
    gen_require(`
    type polaris_disk_bootflash_t;
    `)

    filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
    `)
```

Manage bootflash files

```c
interface(`polaris_harddisk_manage',
    gen_require(`
```
type polaris_disk_harddisk_t;

manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_link_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)

########################################
## <summary>
##	Create an object in the polaris_disk_harddisk_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
##<summary>
##	Domain allowed access.
## </summary>
## </param>
## <param name="private type">
##<summary>
##
The type of the object to be created.
## </summary>
## </param>
##<param name="object">
##<summary>
##
The object class of the object being created.
## </summary>
## </param>
##<param name="name" optional="true">
##<summary>
##
The name of the object being created.
## </summary>
## </param>
#
interface(`polaris_harddisk_filetrans`,
gen_require(`
type polaris_disk_harddisk_t;
`)
filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
`)

########################################
## <summary>
##	Getattr of polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## <param name="domain">

## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_disk_crashinfo_getattr',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
getattr_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

###################################################################
## <summary>
## Manage polaris_disk_crashinfo_t (typically /crashinfo
## symbolic link and real disk it points to)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_crashinfo_manage',
    gen_require(
        type polaris_disk_crashinfo_t;
    )
manage_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
manage_dirs_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
)

###################################################################
## <summary>
## Read links of polaris_disk_crashinfo_t
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_crashinfo_read_lnk',
    gen_require("
type polaris_disk_crashinfo_t;
)
read_lnk_files_pattern($1, polaris_disk_crashinfo_t, polaris_disk_crashinfo_t)
')

#####################################################
## <summary>
## Write/read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_license_manage',`
gen_require(`
    type polaris_disk_license_t;
')
manage_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
manage_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
allow $1 polaris_disk_license_t:file map;
')

#####################################################
## <summary>
## Read polaris_disk_license_t files/directories
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_disk_license_read',`
gen_require(`
    type polaris_disk_license_t;
')
read_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
read_lnk_files_pattern($1, polaris_disk_license_t, polaris_disk_license_t)
')

#####################################################
## Get the attributes of an removable filesystem.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_getattr_removable',
gen_require(''
type removable_t;
'})
allow $1 removable_t:filesystem getattr;
allow $1 removable_t:dir getattrs;
'}

########################################
## <summary>
## Create, read, write, and delete all removable files.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_removable_manage',
gen_require(''
type removable_t;
'})
manage_files_pattern($1, removable_t, removable_t)
manage_dirs_pattern($1, removable_t, removable_t)
')

########################################
## <summary>
## read all removable files.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_removable_read',
gen_require(''
type removable_t;
'})
read_files_pattern($1, removable_t, removable_t)
list_dirs_pattern($1, removable_t, removable_t)
read_link_files_pattern($1, removable_t, removable_t)
')

########################################################################
## <summary>
## Get the attributes of silent roll partition filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_getattr_filesystem_disk_ucode',
    gen_require(`
        type polaris_disk_ucode_t;
    ')

    allow $1 polaris_disk_ucode_t:filesystem getattr;
')

########################################################################
## <summary>
## Get the attributes of an bootflash filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_getattr_bootflash',
    gen_require(`
        type polaris_disk_bootflash_t;
    ')

    allow $1 polaris_disk_bootflash_t:filesystem getattr;
')

########################################################################
## <summary>
## Get the attributes of an harddisk filesystem.
## </summary>
## <param name="domain>

## <summary>
## Domain allowed access.
## </summary>
## </param>

#
interface('polaris_getattr_harddisk',
gen_require(
type polaris_disk_harddisk_t;
')
allow $1 polaris_disk_harddisk_t:filesystem getattr;
')

#######################################
## <summary>
## Get the attributes of an harddisk file.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_getattr_file_harddisk',
gen_require(
type polaris_disk_harddisk_t;
')
getattr_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
')

#######################################
## <summary>
## Watch persistent file or directories
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_persistent_watch',
gen_require(
attribute polaris_disk;
')
allow $1 polaris_disk: {dir file } watch;
')
### <summary>
### Create an object in the polaris_disk_crashinfo_t directories, 
### with a private type using a type transition.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <param name="private type">
### <summary>
### The type of the object to be created.
### </summary>
### </param>
### <param name="object">
### <summary>
### The object class of the object being created.
### </summary>
### </param>
### <param name="name" optional="true">
### <summary>
### The name of the object being created.
### </summary>
### </param>
#
interface(`polaris_crashinfo_filetrans`,
  gen_require(`
    type polaris_disk_crashinfo_t;
  `)
)

filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
`)

### <summary>
### Get the attributes of an polaris_disk_config_t 
### file or directory.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface(`polaris_getattr_disk_config`,
gen_require(`
  `)
type polaris_disk_config_t;
')
gattrs_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
gattrs_dirs_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
')

########################################
## <summary>
## Create an object in the polaris_disk_config_t directories,
## with a private type using a type transition.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <param name="private type">
## The type of the object to be created.
## </param>
## <param name="object">
## The object class of the object being created.
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </param>
#
interface('polaris_disk_config_filetrans',
gen_require(''
type polaris_disk_config_t;
')
filetrans_pattern($1, polaris_disk_config_t, $2, $3, $4)
')

########################################
## Manage bootflash files mmap
## <param name="domain">
## Domain allowed access.
## </param>
## </param>
#
interface('polaris_bootflash_files_mmap',
    gen_require(
        type polaris_disk_bootflash_t;
    ')
    mmap_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstorage.if
No license file was found, but licenses were detected in source scan.
#
# March 2020, Victor Kamensky
#
# Copyright (c) 2020 by Cisco Systems, Inc.
# All rights reserved
#

policy_module(polarisjvm, 1.0);

gen_require('  type polaris_jvm_t;
')

# access /etc/passwd
auth_use_nsswitch(polaris_jvm_t)

# java through posix_sysconf accesses /sys/devices/system/cpu
# to get number of CPUs
dev_read_sysfs(polaris_jvm_t)

# checks whether IPV6 is configured accessing /proc/pid/net/if_inet6
kernel_read_network_state(polaris_jvm_t)

# handling ~/.oracle_jre_usage
type polaris_jvm_home_t;
files_type(polaris_jvm_home_t)
gen_require('  type user_home_dir_t;
')
filetrans_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t, dir, ".oracle_jre_usage")
manage_dirs_pattern(polaris_jvm_t, user_home_dir_t, polaris_jvm_home_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_home_t, polaris_jvm_home_t)

# handling /tmp/hsperfdata_root
type polaris_jvm_tmp_t;
files_type(polaris_jvm_tmp_t)
gen_require(
    type tmp_t;
)
files_tmp_filetrans(polaris_jvm_t, polaris_jvm_tmp_t, dir, "hsperfdata_root")
manage_dirs_pattern(polaris_jvm_t, tmp_t, polaris_jvm_tmp_t)
manage_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)
mmap_files_pattern(polaris_jvm_t, polaris_jvm_tmp_t, polaris_jvm_tmp_t)

# listen on 9093 websocket tcp port
corenet_tcp_bind_polaris_poljvm_websocket_port(polaris_jvm_t)
corenet_tcp_bind_generic_node(polaris_jvm_t)
allow polaris_jvm_t self:tcp_socket create_stream_socket_perms;

# java uses jit and needs executable anonymous mapping
allow polaris_jvm_t self:process execmem;

# Allow JDK access to read cpu and memory utilization data on start up
gen_require(
    type proc_t;
)

allow polaris_jvm_t proc_t:file { getattr open read };
fs_read_cgroup_files(polaris_jvm_t)
fs_search_cgroup_dirs(polaris_jvm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris plogd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplodg.if
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#
# March 2017, Victor Kamensky
#
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### <summary>Polaris hm Policy Rules.</summary>

### <summary>Write into fifo file created by hman, typical case when hman starts script under popen.</summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </param>

### </summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </param>

### </summary>

### <param name="domain">

### <summary>Domain allowed access.</summary>

### </param>
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface(`polaris_pkg_summary_domtrans',`
  gen_require('  
    type polaris_pkg_summary_t;
    type polaris_pkg_summary_exec_t;
  ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_summary_exec_t, polaris_pkg_summary_t)
')

########################################
## <summary>
## Execute pkg_to_tree.sh in its own domain
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolecap/>
#
interface(`polaris_pkg_to_tree_domtrans',`
  gen_require('  
    type polaris_pkg_to_tree_t;
    type polaris_pkg_to_tree_exec_t;
  ')
)
corecmd_search_bin($1)
domtrans_pattern($1, polaris_pkg_to_tree_exec_t, polaris_pkg_to_tree_t)
')

########################################
## <summary>
## Execute hman in the polaris_cli_fs_cmds domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
# interface(`polaris_cli_fs_cmds_domtrans',`
gen_require(
    type polaris_cli_fs_cmds_t, polaris_cli_fs_cmds_exec_t;
    ')

corecmd_search_bin($1)
domtrans_pattern($1, polaris_cli_fs_cmds_exec_t, polaris_cli_fs_cmds_t)
    ')

#######################################
## <summary>
##      Read file /tmp/pkg_summary.txt file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_pkg_summary_tmp_read',
    gen_require(
        type polaris_pkg_summary_tmp_t;
        ')
    read_files_pattern($1, polaris_pkg_summary_tmp_t, polaris_pkg_summary_tmp_t)
    ')

#######################################
## <summary>
##      read the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_show_provision_temp_read',
    gen_require(
        type polaris_show_provision_temp_t;
        ')
    read_files_pattern($1, polaris_show_provision_temp_t, polaris_show_provision_temp_t)
    ')

#######################################
## <summary>
##      manage the contents of /tmp/show_provision_temp
## </summary>
## <param name="domain">
##      <summary>
## Domain allowed access.
##</summary>
##</param>
#
# interface('polaris_show_provision_temp_manage',
  gen_require(
    type polaris_show_provision_tmp_t;
  ')
manage_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
manage_link_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
manage_dirs_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_t)
files_tmp_filetrans($1, polaris_show_provision_tmp_t, { file dir })
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.if
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarispsvp, 1.0);

polaris_process_domain_template(psvp)

# transition to pman domain, once pman is invoked by psvp
polaris_pman_domtrans(polaris_psvp_t)
# transition to pvp domain, once pvp is invoked by psvp
polaris_pvp_domtrans(polaris_psvp_t)

corecmd_exec_bin(polaris_psvp_t)
corecmd_exec_shell(polaris_psvp_t)

# can execute process in polaris domain
polaris_exec(polaris_psvp_t)

# LOOK AT ME start-stop-daemon from busy box iterates all
# /proc/<pid> directories and reads /proc/<pid>/cmdline
# /proc/<pid>/exe. i.e it need quite a bit of priviledges
domain_read_all_domains_state(polaris_psvp_t)

# another issue of running busybox start-stop-daemon under
# psvp_t label
# type=AVC msg=audit(1480527500.482:46): avc: denied { sys_ptrace } for pid=14853 comm="start-stop-daem" capability=19 scontext=system_u:system_r:polaris_psvp_t:s0 tcontext=system_u:system_r:polaris_psvp_t:s0 tclass=capability
allow polaris_psvp_t self:capability sys_ptrace;

# allow to read /proc/meminfo
kernel_read_system_state(polaris_psvp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_psvp_t)

# run ldd, which in turns execve "ld.so --verify"
libs_exec_ld_so(polaris_psvp_t)

# work with /tmp files
type polaris_psvp_tmp_t;
files_tmp_file(polaris_psvp_tmp_t)
manage_dirs_pattern(polaris_psvp_t, tmp_t, polaris_psvp_tmp_t)
manage_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
manage_fifo_files_pattern(polaris_psvp_t, polaris_psvp_tmp_t, polaris_psvp_tmp_t)
files_tmp_filetrans(polaris_psvp_t, polaris_psvp_tmp_t, { file dir })
filetrans_pattern(domain, tmp_t, polaris_psvp_tmp_t, dir, "psvp")

ifdef(`ngwc_family',`
# also need to be able to ls /tmp/ufs/ on ngwc
optional_policy(`
polaris_ncd_tmp_read(polaris_psvp_t)
`)`
)

# note split entry another psvp capability listed above
allow polaris_psvp_t self:capability sys_resource;
polaris_pvp_getattrs_tmp_dirs(polaris_psvp_t)
dmidecode_domtrans(polaris_psvp_t)
polaris_btrace_data_manage(polaris_psvp_t)
polaris_chasfs_manage(polaris_psvp_t)
polaris_cpld_read(polaris_psvp_t)
polaris_cpld_write(polaris_psvp_t)
polaris_rmonbifo_tmp_read(polaris_psvp_t)
polaris_tdldb_list_dirs(polaris_psvp_t)
polaris_boot_tmp_read(polaris_psvp_t)
polaris_disk_crashinfo_getattr(polaris_psvp_t)
polaris_flashlib_read(polaris_psvp_t)
polaris_read_debug_conf(polaris_psvp_t)
allow polaris_psvp_t self:capability dac_override;

# watch /tmp/sai/psvp
allow polaris_psvp_t polaris_psvp_tmp_t:dir watch;

# creates /tmp/sai/pvp/rp/run_stg2
polaris_pvp_manage_tmp_files(polaris_psvp_t)

# Allow /tmp/ufs/bootflash & /tmp/ufs/harddisk read access
ifdef(`vwlc_platform',
optional_policy(
 polaris_ncd_tmp_read(polaris_psvp_t)
')
')

# permissions during shutdown
polaris_pvp_manage_tmp_files(polaris_psvp_t);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.te

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#
# October 2019, Patrick O'Halloran
#
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#

policy_module(polariscrft, 1.0);

##############################################################################
# CRFT policy
##############################################################################
gen_require(
    attribute domain;
    attribute polaris_extended_domain;
')

# persistent CRFT files stored under crft_data
type polaris_crft_data_t;
files_type(polaris_crft_data_t)

# allow crft data file reside on persistent storage
polaris_pfile_type(polaris_crft_data_t)

attribute polaris_crft_data_domain;
typeattribute polaris_crf_t_data_t polaris_crf_t_data_domain;

# Start of mcp_crf_request context elements
polaris_utility_domain_template(crf_request)

# smand calls the mcp_crf_request.sh in bexec context
polaris_bexecute_domtrans(polaris_crf_request_t)
polaris_bexecute_domain(polaris_crf_request_t, polaris_crf_request_exec_t)

# read the cpld information
polaris_cpld_read(polaris_crf_request_t)

# dev/pty access as part of bexec operations
telnet_use_ptys(polaris_crf_request_t)

# filesystem attributes for df /
fs_getattr_xattr_fs(polaris_crf_request_t)

# btrace used in script uses these
polaris_btrace_tmppub_manage(polaris_crf_request_t)
polaris_use_btrace_fifo(polaris_crf_request_t)

# read /proc/rmbonbifo files such as env_var.sh
polaris_rmonbifo_tmp_read(polaris_crf_request_t)

# read /tmp/sw/boot/base_pkg
polaris_boot_tmp_manage(polaris_crf_request_t)

# ufs information captured by the chasfs utils
ifdef(`ngwc_family',`
optional_policy(`
polaris_ncd_tmp_manage(polaris_crf_request_t)
`)
`)
# scripts read /proc/cmdline
kernel_read_system_state(polaris_crf_request_t)

# ping the vrf
netutils_domtrans_ping(polaris_crf_request_t)
sysnet_domtrans_ifconfig(polaris_crf_request_t)

# rsync operations for members and standby rps
gen_require(`
    type rsync_exec_t;
    type rsync_port_t;
`)
allow polaris_crf_request_t rsync_exec_t:file { execute execute_no_trans getattr map open read }
allow polaris_crf_request_t rsync_port_t:tcp_socket name_connect;
Open Source Used In Cisco Identity Services Engine 3.2  20672

# access to /etc/hosts for rp/members information

    gen_require("
       type net_conf_t;
    ")

    files_etc_filetrans(polaris_crft_request_t, net_conf_t, file, "hosts")

    auth_use_nsswitch(polaris_crft_request_t)

    # execute the bash script
    corecmd_exec_bin(polaris_crft_request_t)

    # net namespace filesystem
    fs_read_nsfs_files(polaris_crft_request_t)
    polaris_chasfs_manage(polaris_crft_request_t)

    # script also accesses the persistent files from crft
    polaris_persistent_manage(polaris_crft_request_t)
    polaris_crft_data_manage_all(polaris_crft_request_t)

    # ping operations via ip netns
    gen_require("
       type ifconfig_t;
    ")

    netutils_domtrans_ping(ifconfig_t)

    # Curl accesses from IoT boxes like petra/sparrow
    gen_require("
       type polaris_curl_t;
       type polaris_iosd_t;
    ")

    allow polaris_curl_t polaris_crft_request_t:process sigchld;

    # handle mktemp creation and cleanup
    files_manage_generic_tmp_dirs(polaris_crft_request_t)
    allow polaris_crft_request_t self:capability sys_resource;

    Found in path(s):
    * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscrft.te

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    #
    # July 2017, Victor Kamensky
    #
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    #

    policy_module(polaristamdrp, 1.0);
gen_require('  
    type polaris_tamd_rp_t;
   ')

polaris_btrace_data_manage(polaris_tamd_rp_t)
polaris_crft_data_manage(polaris_tamd_rp_t)
polaris_chasfs_manage(polaris_tamd_rp_t)
polaris_tdlresolve_read(polaris_tamd_rp_t)
polaris_tdldb_list_dirs(polaris_tamd_rp_t)
polaris_flashlib_read(polaris_tamd_rp_t)
logging_send_syslog_msg(polaris_tamd_rp_t)

# allow read of /etc/passwd
auth_use_nsswitch(polaris_tamd_rp_t)

polaris_cpld_read(polaris_tamd_rp_t)
polaris_cpld_write(polaris_tamd_rp_t)

polaris_quack_dev_use(polaris_tamd_rp_t)

# tmp file for udi authentication
type polaris_tamd_rp_tmp_t;
files_tmp_file(polaris_tamd_rp_tmp_t);
files_tmp_filetrans(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, file, "tam_uid_validation")
manage_files_pattern(polaris_tamd_rp_t, polaris_tamd_rp_tmp_t, polaris_tamd_rp_tmp_t)
polaris_cm_rp_tmp_manage(polaris_tamd_rp_t)

# hybrid tam needs access to /objstore/.swtam
gen_require('  
    type polaris_disk_objstore_t;
    type root_t;
   ')
filetrans_pattern(polaris_tamd_rp_t, root_t, polaris_disk_objstore_t, dir, "objstore")
manage_dirs_pattern(polaris_tamd_rp_t, polaris_disk_objstore_t, polaris_disk_objstore_t)
polaris_disk_objstore_manage(polaris_tamd_rp_t)

# need access to dash fpga to read/write TAM
optional_policy('  
    polaris_dash_dev_use(polaris_tamd_rp_t)
  ')

#access to /dev/dash_fpga device on fugazi platform
ifdef('fugazi_platform',
    polaris_dash_dev_mcp_use(polaris_tamd_rp_t)
')

allow polaris_tamd_rp_t self:capability net_admin;
# LOOK AT ME tamd_rp needs shell access to do something like this
# sh -c "echo 0x04 > /sys/devices/platform/cpld/reg_rp_reset_control"
# need to rework into simple open,write,close
corecmd_exec_shell(polaris_tamd_rp_t)

# LOOK AT ME access should be restricted after /flash/dummy_check is removed,
# which is tracked under CSCvh68866. Allow access to bootflash till then.
polaris_bootflash_read(polaris_tamd_rp_t)

optional_policy(
  # Allow /dev/dmammap access
  polaris_dmammap_dev_use(polaris_tamd_rp_t)
)

# LOOK AT ME: /dev/mem access restriction
polaris_dev_mem_use(polaris_tamd_rp_t)

optional_policy(
  polaris_ngwc_shm_manage(polaris_tamd_rp_t)
)

optional_policy(
  polaris_remap_mem_dev_use(polaris_tamd_rp_t)
)

polaris_cpld_dev_use(polaris_tamd_rp_t)

optional_policy(
  # allow access to /sys/devices/virtual/misc/gpio/gpio_out_assert
  polaris_ggpio_dev_read_write(polaris_tamd_rp_t)
)

optional_policy(
  polaris_quake_i2c_manage(polaris_tamd_rp_t)
)

# /dev/aikido access
polaris_aikido_dev_use(polaris_tamd_rp_t)

# tamlib debug file access
polaris_tamlid_dbg_file_manage(polaris_tamd_rp_t)

# tam gpio sysfs access
optional_policy(
  dev_rw_sysfs(polaris_tamd_rp_t)
)
ifdef('petra_platform',
#allow access to /dev/i2c-0 for hash value
polaris_i2c_use(polaris_tamd_rp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamdrp.te
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#
# March 2017, Victor Kamensky
#
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#

/usr/bin/os/conf/sort_files_by_inode.sh -- gen_context(system_u:object_r:polaris_sort_files_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarissortfiles.fc
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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#

policy_module(polariscedgestart, 1.0);

gen_require(''
    type polaris_cedge_start_t;
')

polaris_chasfs_manage(polaris_cedge_start_t)
polaris_boot_tmp_read(polaris_cedge_start_t)
polaris_bootflash_manage(polaris_cedge_start_t)
polaris_cpld_read(polaris_cedge_start_t)
polaris_flashlib_read(polaris_cedge_start_t)
polaris_rmonbifo_tmp_read(polaris_cedge_start_t)
polaris_btrace_tmppub_read(polaris_cedge_start_t)

# needed by install_util.sh
polaris_read_packages_conf(polaris_cedge_start_t)

corecmd_exec_bin(polaris_cedge_start_t)
corecmd_exec_shell(polaris_cedge_start_t)
auth_use_nsswitch(polaris_cedge_start_t)

polaris_dmi_ports_fetch_domtrans(polaris_cedge_start_t)

# runs ps -C cfgmgr -o pid=
# ps needs access to proc_t
ekernel_read_system_state(polaris_cedge_start_t)
# ps needs access to state of all domains
domain_read_all_domains_state(polaris_cedge_start_t)
# "ps" needs read access to /sys/devices/system/cpu/online
# "ps" needs read access to /proc/uptime
dev_read_sysfs(polaris_cedge_start_t)

# runs vip-confd-startup.sh needs transition into polaris_confd_t domain
polaris_confd_domtrans(polaris_cedge_start_t)

# runs systemctl start logrotate.service
systemd_exec_systemctl(polaris_cedge_start_t)

# manage /etc/viptela
polaris_cedge_etc_manage(polaris_cedge_start_t)

# runs install_assist.sh
polaris_install_engine_domtrans(polaris_cedge_start_t)

# write /bootflash/installer/images/pkg_boot_17.3.01/version
polaris_disk_install_manage(polaris_cedge_start_t)

gen_require(' type polaris_disk_install_t; ')
# du -s /bootflash/installer/images/pkg_boot_17.3.01/confd0/cdb
allow polaris_cedge_start_t polaris_disk_install_t:filesystem getattr;

# chown -R binos /bootflash/sdwan
fs_getattr_xattr_fs(polaris_cedge_start_t)

allow polaris_cedge_start_t self:capability { chown fowner net_admin };

# PLEASE LOOK AT ME cedge_start.sh modifies set of directories that
# are supposed to be read only, like usr_t, etc_t, root_t
files_rw_usr_dirs(polaris_cedge_start_t)

gen_require(' type usr_t; ')
manage_lnk_files_pattern(polaris_cedge_start_t, usr_t, usr_t)
libs_manage_lib_dirs(polaris_cedge_start_t)

gen_require(' type lib_t; ')

manage_lnk_files_pattern(polaris_cedge_start_t, lib_t, lib_t)
files_manage/etc_symlinks(polaris_cedge_start_t)
files_manage/var_symlinks(polaris_cedge_start_t)
# creates /home directory in root
gen_require("
    type root_t;
")
manage_dirs_pattern(polaris_cedge_start_t, root_t, root_t)
manage_lnk_files_pattern(polaris_cedge_start_t, root_t, root_t)
# creates /var/log/sdwan
gen_require("
    type var_log_t;
")
manage_dirs_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
manage_lnk_files_pattern(polaris_cedge_start_t, var_log_t, var_log_t)
corecmd_manage_bin_files(polaris_cedge_start_t)

# PLEASE LOOK AT ME copy unit files into /lib/systemd/system
# cp /tmp/sw/rp/0/0/rp_daemons/mount/lib/systemd/system/logrotate.service /lib/systemd/system
gen_require("
    type systemd_unit_file_t;
")
read_lnk_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)

# PLEASE LOOK AT ME need to have separate label for logrotate.service
# allow only to start if, do it once copy of logrotate.service is fixed
systemd_config_generic_services(polaris_cedge_start_t)
init_start(polaris_cedge_start_t)

# creates /var/log/confd
polaris_confd_var_log_manage(polaris_cedge_start_t)

# executes touch /etc/resolv.conf for case when it is missing
# check create/etc_resolv_conf make sure that it becomes net_conf_t
gen_require("
    type net_conf_t;
")
files/etc_filetrans(polaris_cedge_start_t, net_conf_t, file, "resolv.conf")
sysnet_create_config(polaris_cedge_start_t)
sysnet_write_config(polaris_cedge_start_t)

# creates /var/confd0 when box boots with startup config disabled
polaris_confd_var_filetrans(polaris_cedge_start_t, dir, "confd0")
polaris_confd_var_dir_manage(polaris_cedge_start_t)

###############################################################
During controller-mode enablement/bringup, viptela scripts are not loaded as part of the base packages. The viptela-start.sh script takes care of creating these references. It creates softlink copies them as below to desired location depending on the packaging (mono vs subpackage).

```
cp $PKG_PATH/lib/systemd/system/logrotate.service /lib/systemd/system
```

Below policy statement allow copy access needed for viptela-logrotate.sh:
```
# for updating /lib/systemd/system and /usr/binos/conf path
write_files_pattern(polaris_cedge_start_t, systemd_unit_file_t, systemd_unit_file_t)
```

While creating soflink as below:
```
"ln -sf $PKG_PATH/usr/binos/conf/viptela-logrotate.sh /usr/binos/conf/viptela-logrotate.sh"
```

As the ln command tries to create the new link, it removes the already existing link.

- If in can't get rid of the conflicting path name, it does not attempt to establish the new link.
- If ln successfully removes the conflicting path name, it then establishes the link.

delete file permissions are hence needed for ln command to perform unlinking previous link
```
files_delete_etc_files(polaris_cedge_start_t)
```

During cEdge upgrade, viptela-start.sh needs permissions to maintain the state of roll back timer in /bootflash/.rollback_timer/*
```
polaris_rbtimer_bootflash_manage(polaris_cedge_start_t)
```

Nutella-XE - Vedge image install
```
/bin/bash /tmp/sw/rp/0/0/rp_security/mount/usr/binos/conf/viptela-start.sh
```

mount_domtrans(polaris_cedge_start_t)

Found in path(s):
`*/opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.te`

### 1.1346 system-net-http-winhttphandler 5.0.0.0

#### 1.1346.1 Available under license:

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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1.1347 go-autorest-logging 0.2.1

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1.1359 perl-unicode-normalize 1.25-396.el8

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
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* /opt/ cola/ permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-
jar/jersey/repackaged/com/google/common/collect/CartesianList.java
* /opt/ cola/ permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-
jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
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jar/jersey/repackaged/com/google/common/math/DoubleMath.java
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jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java

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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/RowSortedTable.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/AbstractSequentialIterator.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collections/UnmodifiableListIterator.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collections/ForwardingSetMultimap.java

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jar/jersey/repackaged/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-
jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-
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  jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMap.java
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/AbstractIndexedListIterator.java
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 * As of 2010/06/11, this method is identical to the (package private) hash
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/Ints.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collections/ImmutableMultiset.java
1.1377 swagger-models 1.6.1

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

```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;
```

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

    public Info version(String version) {
        this.setVersion(version);
        return this;
    }

    public Info title(String title) {
        this.setTitle(title);
        return this;
    }

    public Info description(String description) {
        this.setDescription(description);
        return this;
    }

    public Info termsOfService(String termsOfService) {
        this.setTermsOfService(termsOfService);
        return this;
    }

    public Info contact(Contact contact) {
        this.setContact(contact);
        return this;
    }

    public Info license(License license) {
        this.setLicense(license);
        return this;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getVersion() {
        return version;
    }

    public void setVersion(String version) {
        this.version = version;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public void setTermsOfService(String termsOfService) {
        this.termsOfService = termsOfService;
    }

    public void setContact(Contact contact) {
        this.contact = contact;
    }

    public void setLicense(License license) {
        this.license = license;
    }

    public String toString() {
        String info = "description: " + description + "
        version: " + version + "
        title: " + title + "
        termsOfService: " + termsOfService + "
        contact: " + contact + "
        license: " + license + "
        vendorExtensions: " + vendorExtensions + "\n"
        return info;
    }
}

public class Contact {
    private String name;
    private String email;
    private String phone;
}

public class License {
    private String name;
    private String type;
}

public class VendorExtensions {
    private String vendor;
    private String extension;
}

public class InfoExample {
    public static void main(String[] args) {
        Info info = new Info();
        info.version("1.0");
        info.title("Cisco Identity Services Engine 3.2");
        info.description("Open Source Used In Cisco Identity Services Engine 3.2");
        info.termsOfService("Apache License 2.0");
        info.contact(new Contact("John Doe", "jdoe@example.com", "555-555-5555");
        info.license(new License("Open Source Used In Cisco Identity Services Engine 3.2", "Open Source Used In Cisco Identity Services Engine 3.2");
        System.out.println(info.toString());
    }
}

public class VendorExtensionsExample {
    public static void main(String[] args) {
        Info info = new Info();
        info.vendorExtensions.put("vendor1", new VendorExtensions("vendor1", "vendor1");
        info.vendorExtensions.put("vendor2", new VendorExtensions("vendor2", "vendor2");
        info.vendorExtensions.put("vendor3", new VendorExtensions("vendor3", "vendor3");
        System.out.println(info.toString());
    }
}
public String getTitle() {
    return title;
}

public void setTitle(String title) {
    this.title = title;
}

public String getTermsOfService() {
    return termsOfService;
}

public void setTermsOfService(String termsOfService) {
    this.termsOfService = termsOfService;
}

public Contact getContact() {
    return contact;
}

public void setContact(Contact contact) {
    this.contact = contact;
}

public License getLicense() {
    return license;
}

public void setLicense(License license) {
    this.license = license;
}

public Info mergeWith(Info info) {
    if (info != null) {
        if (this.description == null) {
            this.description = info.description;
        }
        if (this.version == null) {
            this.version = info.version;
        }
        if (this.title == null) {

            return version;
        }

        public void setVersion(String version) {
            this.version = version;
        }

        public String getTitle() {
            return title;
        }

        public void setTitle(String title) {
            this.title = title;
        }

        public String getTermsOfService() {
            return termsOfService;
        }

        public void setTermsOfService(String termsOfService) {
            this.termsOfService = termsOfService;
        }

        public Contact getContact() {
            return contact;
        }

        public void setContact(Contact contact) {
            this.contact = contact;
        }

        public License getLicense() {
            return license;
        }

        public void setLicense(License license) {
            this.license = license;
        }

        public Info mergeWith(Info info) {
            if (info != null) {
                if (this.description == null) {
                    this.description = info.description;
                }
                if (this.version == null) {
                    this.version = info.version;
                }
                if (this.title == null) {
this.title = info.title;
}
if (this.termsOfService == null) {
    this.termsOfService = info.termsOfService;
}
if (this.contact == null) {
    this.contact = info.contact;
}
if (this.license == null) {
    this.license = info.license;
}
if (this.vendorExtensions == null) {
    this.vendorExtensions = info.vendorExtensions;
}
}
return this;

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    result = prime * result + ((title == null) ? 0 : title.hashCode());
    result = prime * result + ((version == null) ? 0 : version.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}
return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    Info other = (Info) obj;
    if (contact == null) {
        if (other.contact != null) {
            return false;
        }
    } else if (!contact.equals(other.contact)) {
        return false;
    }
    if (description == null) {
        if (other.description != null) {
            return false;
        }
    } else if (!description.equals(other.description)) {
        return false;
    }
    if (license == null) {
        if (other.license != null) {
            return false;
        }
    } else if (!license.equals(other.license)) {
        return false;
    }
    if (termsOfService == null) {
        if (other.termsOfService != null) {
            return false;
        }
    } else if (!termsOfService.equals(other.termsOfService)) {
        return false;
    }
    if (title == null) {
        if (other.title != null) {
            return false;
        }
    } else if (!title.equals(other.title)) {
Open Source Used In Cisco Identity Services Engine 3.2

```java
public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }

    public void setName(String name) {
        this.name = name;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @JsonAnyGetter
    public Map<String, Object> getVendorExtensions() {
        return vendorExtensions;
    }

    @JsonAnySetter
    public void setVendorExtensions(String key, Object value) {
        vendorExtensions.put(key, value);
    }

    public boolean equals(License other) {
        if (vendorExtensions == null) {
            if (other.vendorExtensions != null) {
                return false;
            }
        } else if (!vendorExtensions.equals(other.vendorExtensions)) {
            return false;
        }

        if (version == null) {
            if (other.version != null) {
                return false;
            } else if (!version.equals(other.version)) {
                return false;
            }
        }

        return true;
    }

    @Override
    public int hashCode() {
        return vendorExtensions != null ? vendorExtensions.hashCode() : 0;
    }
}
```

Found in path(s):
* /opt/cola/permits/1175311265_1624358424.31/0/swagger-models-1-6-1-sources-jar/io/swagger/models/Info.java

No license file was found, but licenses were detected in source scan.
return name;
}

public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (obj == null) {
        return false;
    }
    }
}
if (getClass() != obj.getClass()) {
    return false;
}

License other = (License) obj;
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
return true;

Found in path(s):
* /opt/cola/permits/1175311265_1624358424.31/0/swagger-models-1-6-1-sources-jar/io/swagger/models/License.java

1.1378 libverto-libevent 0.3.0-5.el8

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1.1379 logstash-codec-cef 6.2.3

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1.1380 dlclark-regexp2 1.4.1-0.20201116162257-a2a8dda75c91

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1.1381 perl-sys-meminfo 0.99-6.el8

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1989
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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   b) You must cause the files modified to carry prominent notices
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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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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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
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Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
/*/ 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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# 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 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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

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

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

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

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* /opt/ws_local/PERMITS_SQL/1064385683_1593305151.11/0/antisamy-1-5-9-sources-jar/org/owasp/validator/html/ScanException.java
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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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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(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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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h
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1.1409 logstash-input-dead_letter_queue

1.1.8

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1.1416 system-text-encoding-codepages

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h
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1.1417 perl-digest 1.17-395.el8

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This is just a simple frontend module for autoloading of various Digest:: modules. It also provide documentation of the interface that all Digest:: modules should provide.

You will need perl version 5.004 or better to install this module.

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=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

$md5 = Digest->new("MD5");
$sha1 = Digest->new("SHA-1");
$sha256 = Digest->new("SHA-256");
$sha384 = Digest->new("SHA-384");
$sha512 = Digest->new("SHA-512");

$hmac = Digest->HMAC_MD5($key);

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints" or "hashes", of some data, called a message. The digest is (usually) some small/fixed size string. The actual size of the digest depend of the algorithm used. The message is simply a sequence of arbitrary bytes or bits.

An important property of the digest algorithms is that the digest is I<likely> to change if the message change in some way. Another property is that digest functions are one-way functions, that is it should be I<hard> to find a message that correspond to some given digest. Algorithms differ in how "likely" and how "hard", as well as
how efficient they are to compute.

Note that the properties of the algorithms change over time, as the algorithms are analyzed and machines grow faster. If your application for instance depends on it being "impossible" to generate the same digest for a different message it is wise to make it easy to plug in stronger algorithms as the one used grow weaker. Using the interface documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A functional interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

The digest can be delivered in three formats:

=over 8
=item I<binary>

This is the most compact form, but it is not well suited for printing or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters. This is the base64 encoded representation of the digest with any trailing padding removed. The string will be about 30% longer than the binary version. L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same name as the algorithm. The functions take the message as argument and return the digest. Example:

use Digest::MD5 qw(md5);
$digest = md5($message);

There are also versions of the functions with "_hex" or "_base64" appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE
The following methods are available for all C<Digest::> modules:

=over 4
=item $ctx = Digest->XXX($arg,...)
=item $ctx = Digest->new(XXX => $arg,...)
=item $ctx = Digest::XXX->new($arg,...)

The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add( $data )
=item $ctx->add( $chunk1, $chunk2, ... )

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:
Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.

=item $ctx->addfile( $io_handle )

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

=item $ctx->add_bits( $data, $nbits )

=item $ctx->add_bits( $bitstring )

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order C<< $nbits % 8 >> bits are used. If $nbits is greater than C<< length($data) * 8 >>, then this method would do the same as C<< $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for C<< $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>.

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

$ctx->add_bits("111100001010");
Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Size</th>
<th>Implementation</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD4</td>
<td>128</td>
<td>Digest::MD4 v1.3</td>
<td>165.0</td>
</tr>
<tr>
<td>MD5</td>
<td>128</td>
<td>Digest::MD5 v2.33</td>
<td>98.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA2 v1.1.0</td>
<td>66.7</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA v4.3.1</td>
<td>58.9</td>
</tr>
<tr>
<td>SHA-1</td>
<td>160</td>
<td>Digest::SHA1 v2.10</td>
<td>48.8</td>
</tr>
<tr>
<td>SHA-256</td>
<td>256</td>
<td>Digest::SHA v4.3.1</td>
<td>41.3</td>
</tr>
<tr>
<td>Haval-256</td>
<td>256</td>
<td>Digest::Haval256 v1.0.4</td>
<td>39.8</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.6</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA2 v1.1.0</td>
<td>19.3</td>
</tr>
<tr>
<td>SHA-384</td>
<td>384</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>SHA-512</td>
<td>512</td>
<td>Digest::SHA v4.3.1</td>
<td>19.2</td>
</tr>
<tr>
<td>Whirlpool</td>
<td>512</td>
<td>Digest::Whirlpool v1.0.2</td>
<td>13.0</td>
</tr>
<tr>
<td>MD2</td>
<td>128</td>
<td>Digest::MD2 v2.03</td>
<td>9.5</td>
</tr>
</tbody>
</table>
These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being pure perl implementations of the algorithms, which explains why they are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

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=cut

Found in path(s):
* /opt/cola/permits/1125845428_1611460556.16/0/perl-Digest-1.17-395.el8-1.src.rpm-cosi-expand-archive-3zjYGirJ/Digest-1.17.tar.gz-cosi-expand-archive-tJB07TTE/Digest-1.17/Digest.pm

1.1418 zlib 1.2.3
1.1418.1 Available under license:

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

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jloup@gzip.org          madler@alumni.caltech.edu

*/

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1424 javax-inject 2.3.0-b10

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec,string/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionUtil.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/xml/XMLFrameDecoder.java
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/**
 * A decoder that splits the received @link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * @link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * 
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * 
 * The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * 
 * <pre>
 * &lt;b&gt;lengthFieldOffset&lt;/b&gt; = &lt;b&gt;0&lt;/b&gt;
 * &lt;b&gt;lengthFieldLength&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt;
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |

BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
| Length | Actual Content |---->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |

BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |

Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()], you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to strip the first two bytes.

lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0

BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Actual Content |
| 0x000E | "HELLO, WORLD" |      | "HELLO, WORLD" |

BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero <tt>lengthAdjustment</tt>. Because the length value in this example message is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as <tt>lengthAdjustment</tt> for compensation.

lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
initialBytesToStrip = 0

BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |

BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
| Length | Actual Content |---->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
The following message is a simple variation of the first example. An extra header value is prepended to the message. \texttt{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```plaintext
lengthFieldOffset = 2 (= the length of Header 1)
lengthFieldLength = 3
lengthAdjustment = 0
initialBytesToStrip = 0

BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the \texttt{lengthFieldOffset} and the extra header affects the \texttt{lengthAdjustment}. We also specified a non-zero

[3 bytes length field at the end of 5 bytes header, do not strip header]

[3 bytes length field at the beginning of 5 bytes header, do not strip header]

[2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field]
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

* <pre>
  * lengthFieldOffset   = 1 (= the length of HDR1)
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
  * <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +--------+--------+--------+----------------+
  * | HDR1    | Length  | HDR2   | Actual Content |
  * | 0xCA    | 0x000C  | 0xFE   | "HELLO, WORLD" |
  * +--------+--------+--------+----------------+
  *
  * </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

* <pre>
  * lengthFieldOffset   = 1
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
  * <b>initialBytesToStrip</b> = <b>3</b>
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +--------+--------+--------+----------------+
  * | HDR1    | Length  | HDR2   | Actual Content |
  * | 0xCA    | 0x0010  | 0xFE   | "HELLO, WORLD" |
  * +--------+--------+--------+----------------+
  *
  * </pre>

* @see LengthFieldPrepender

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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Enumeration of supported Base64 dialects.

The internal lookup tables in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder

Found in path(s):
/netty-handler/codec/base64/Base64Dialect.java

---

1.1429 logstash-codec-edn 3.1.0

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Additional -

File: PSReadLine

https://github.com/Izybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1432 golang-protobuf-extensions 1.0.1

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1.1433 kerberos 1.18

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

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

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Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
	traditional one-character options, and GNU’ish
	--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.1437 python3-systemd 234-8.el8

1.1437.1 Available under license:

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1.1440 cyrus-sasl 2.1.27+dfsg-2
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Carriage_Control carriage_return
Format stream_Lf
1.1442 centrifugal-centrifuge 0.18.8

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1.1443 curl 7.61.1-22.el8

1.1443.1 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!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless
you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

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## mbedTLS
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## BoringSSL

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## libressl

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## c-ares

(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.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

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## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

## libidn

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.1444 xorm.io-core 0.7.3

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1.1445 python-certifi 2018.01.18

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

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

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***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *----------------------------------------
 * pam_policy.h : includes for onep pam related
 * routines
 * June 2011, c3pl-dev
 * 
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *----------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_policy.h
No license file was found, but licenses were detected in source scan.

/*----------------------------------------
 * pam_client_typedef.h
 * 
 * Aug 2011, c3pl-dev
 * 
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 * All rights reserved.
 *----------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_client_typedef.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *----------------------------------------
 * pam_ppm_redirect_ut.h
 * pam ppm redirect ut specific function definitions
 * 
 * January 2011, c3pl-dev
 * 
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *----------------------------------------
 * $Log$
No license file was found, but licenses were detected in source scan.

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

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

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##
syntax: 1.0.0

group: generic
{
enum:
    internal_inc/enum/pam_class.enum
    internal_inc/enum/pam_client.enum
    internal_inc/enum/pam_obj.enum
    internal_inc/enum/pam_policy.enum
}

group: top
{
    includes: $(COMPONENT_ROOT)/posix/include
    sub: c3pl_pam
    {
        contains:
        pam/src/pam_app_data_db.c
        pam/src/pam_app_db.c
        pam/src/pam_hdl.c
        pam/src/pam_provision.c
    }
}

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/content.lst
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/*
  * $Id$
  * $Source$
  *------------------------------------------------------------------
  * pam_app_data_db.c : pam app data db implementation routines
  *
  * Aug 2011, c3pl-dev
  *
  * Copyright (c) 2011 by cisco Systems, Inc.
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  *------------------------------------------------------------------
  */

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* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/src/pam_app_data_db.c
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#----------------------------------------------
# pam_client.enum -- PAM client type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by Cisco Systems, Inc.
# All rights reserved.
#----------------------------------------------

BEGIN PAM_CLIENT_ENUM

ENUM pam_client_type

  # String to dump for debug commands.
  ATTRIBUTE pam_client_debug
    TYPE char*
  END ATTRIBUTE

  # String to be reserved as name prefix.
  ATTRIBUTE pam_client_prefix
    TYPE char*
  END ATTRIBUTE

ITEM PAM_CLIENT_ONEP
  LONG    "ONEP"
  SHORT   "ONEP"
  ATTRIBUTE[pam_client_debug] "ONEP"
  ATTRIBUTE[pam_client_prefix] "___ONEP_"

END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_client.enum
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/"----------------------------------------------
* pam_policy_typedef.h
*
* Aug 2011, c3pl-dev
*
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*----------------------------------------------
/*

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/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_ppm_shim.h
 * pam ppm shim specific function definitions
 *
 * January 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
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 *------------------------------------------------------------------
 * $Log$
 * Branch:
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_ppm_shim.h
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/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_debug.h : pam debug macros
 *
 * June 2011, c3pl-dev
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
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 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_debug.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_class.h : includes for onep pam related
 * routines
 */
Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 21854
BEGIN PAM_EXCEPTION_ENUM

ENUM pam_exception_type

# String to dump for debug commands.
ATTRIBUTE pam_exception_debug
    TYPE char*
END ATTRIBUTE

ITEM PAM_OK
    LONG    ""
    SHORT   "OK  
    ATTRIBUTE[pam_exception_debug]  "OK"
END ITEM

ITEM PAM_INVLD_HDL
    LONG    ""
    SHORT   "INVLD_HDL  
    ATTRIBUTE[pam_exception_debug]  "INVALID_HANDLE"
END ITEM

ITEM PAM_INVLD_ATTR
    LONG    ""
    SHORT   "INVLD_ATTR  
    ATTRIBUTE[pam_exception_debug]  "INVALID_ATTRIBUTE"
END ITEM

ITEM PAM_APPID_NO_MATCH
    LONG    ""
    SHORT   "APPID_NO_MATCH  
    ATTRIBUTE[pam_exception_debug]  "APPID_NO_MATCH"
END ITEM

ITEM PAM_SYS_NOMEM
    LONG    ""
    SHORT   "SYS_NOMEM  
    ATTRIBUTE[pam_exception_debug]  "SYSTEM_NO_MEMORY"
END ITEM

ITEM PAM_ADD_ACTION_FAIL
    LONG    ""
    SHORT   "ADD_ACTION_FAIL  
    ATTRIBUTE[pam_exception_debug]  "ADD_ACTION_FAILED"
END ITEM

ITEM PAM_RM_ACTION_FAIL
    LONG    ""

END
ITEM PAM_ATTACH_POL_FAIL
  LONG   ""
  SHORT  "ATTACH_POL_FAIL"
  ATTRIBUTE[pam_exception_debug] "ATTACH_POLICY_FAILED"
END ITEM

ITEM PAM_DETACH_POL_FAIL
  LONG   ""
  SHORT  "DETACH_POL_FAIL"
  ATTRIBUTE[pam_exception_debug] "DETACH_POL_FAILED"
END ITEM

ITEM PAM_STORE_POL_FAIL
  LONG   ""
  SHORT  "STORE_POL_FAIL"
  ATTRIBUTE[pam_exception_debug] "STORE_POLICY_FAILED"
END ITEM

ITEM PAM_DEL_POL_FAIL
  LONG   ""
  SHORT  "DEL_POL_FAIL"
  ATTRIBUTE[pam_exception_debug] "DELETE_POLICY_FAILED"
END ITEM

ITEM PAM_ADD_CLS_FAIL
  LONG   ""
  SHORT  "ADD_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "ADD_CLASS_FAILED"
END ITEM

ITEM PAM_DEL_CLS_FAIL
  LONG   ""
  SHORT  "DEL_CLS_FAIL"
  ATTRIBUTE[pam_exception_debug] "DELETE_CLASS_FAILED"
END ITEM

ITEM PAM_ERR_CLASS_IN_USE
  LONG   ""
  SHORT  "ERR_CLASS_IN_USE"
  ATTRIBUTE[pam_exception_debug] "ERR_CLASS_IN_USE"
END ITEM

ITEM PAM_STORE_CLS_FAIL
  LONG   ""
ITEM PAM_QUERY_CLS_FAIL
LONG ""
SHORT "QUERY_CLS_FAIL"
ATTRIBUTE[pam_exception_debug] "QUERY_CLASS_FAILED"
END ITEM

ITEM PAM_QUERY_POL_FAIL
LONG ""
SHORT "QUERY_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "QUERY_POLICY_FAILED"
END ITEM

ITEM PAM_POL_NOT_FOUND
LONG ""
SHORT "POL_NOT_FOUND"
ATTRIBUTE[pam_exception_debug] "POLICY_NOT_FOUND"
END ITEM

ITEM PAM_ADD_FILTER_FAIL
LONG ""
SHORT "ADD_FILTER_FAIL"
ATTRIBUTE[pam_exception_debug] "ADD_FILTER_FAIL"
END ITEM

ITEM PAM_RM_FILTER_FAIL
LONG ""
SHORT "RM_FILTER_FAIL"
ATTRIBUTE[pam_exception_debug] "REMOVE_FILTER_FAIL"
END ITEM

ITEM PAM_ADD_CLD_POL_FAIL
LONG ""
SHORT "ADD_CHILD_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "ADD_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DTH_CLD_POL_FAIL
LONG ""
SHORT "DETACH_CHILD_POL_FAIL"
ATTRIBUTE[pam_exception_debug] "DETACH_CHILD_POL_FAIL"
END ITEM

ITEM PAM_RETRV_CHLD_POL_FAIL
LONG ""
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/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_target.h : includes for onep pam related
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 *
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 *------------------------------------------------------------------
 */

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* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_target.h
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/*-------------------------------
 * pam_class_typedef.h
 *
 * Aug 2011, c3pl-dev
 *
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 *-------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_class_typedef.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_types.h : includes for onep pam related
 * June 2011, c3pl-dev
 *
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 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_types.h
No license file was found, but licenses were detected in source scan.
/*
 * $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_app_db.c : pam app db api implementation
 * routines
 * Aug 2011, c3pl-dev
 *
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 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_app_db.c
No license file was found, but licenses were detected in source scan.

/*
 * $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_provision.c : pam provision api implementation
 * routines
 * Aug 2011, c3pl-dev
 *
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 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_provision.c
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#---------------------------------------------
# pam_policy.enum -- PAM policy type enumerations
#
# Aug 2011, c3pl-dev
#
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#---------------------------------------------

BEGIN PAM_POLICY_ENUM

ENUM pam_policy_type

 # String to dump for debug commands.

---
ATTRIBUTE pam_policy_debug
   TYPE char*
END ATTRIBUTE

ITEM PAM_POLICY_QOS
   LONG ""
   SHORT "QOS"
   ATTRIBUTE[pam_policy_debug] "QOS"
END ITEM

ITEM PAM_POLICY_PSP
   LONG ""
   SHORT "PSP"
   ATTRIBUTE[pam_policy_debug] "PSP"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_policy.enum

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/*------------------------------------------------------------------
* pam_app_data_db_types.h: Internally used data structures for PAM APP DATA DB
* Aug 2011, c3pl-dev
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*------------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_app_data_db_types.h

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* pam_hdl.h: Function declarations for manipulating handles
* Aug 2011, c3pl-dev
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*------------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_hdl.h
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/*------------------------------------------------------------------
* pam_app_db.h: Function delcarations for manipulating the PAM APP DB
* 
* Aug 2011, c3pl-dev
* 
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*------------------------------------------------------------------*/

BEGIN PAM_OBJ_ENUM

ENUM pam_obj_type

# String to dump for debug commands.
ATTRIBUTE pam_obj_debug
  TYPE char*
END ATTRIBUTE

ITEM PAM_OBJ_TYPE_CLASS
  LONG ""
  SHORT "CLASS"
  ATTRIBUTE[pam_obj_debug] "CLASS"
END ITEM

ITEM PAM_OBJ_TYPE_POLICY
  LONG ""
  SHORT "POLICY"
  ATTRIBUTE[pam_obj_debug] "POLICY"
END ITEM
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
/* pam_provision.h: Function declarations used during PAM provisioning */
/* Aug 2011, c3pl-dev */
/* Copyright (c) 2011 by Cisco Systems, Inc. */
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/*-----------------------------------------------*/
/*
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------*/
/* pam_obj_typedef.h */
/* Aug 2011, c3pl-dev */
/* Copyright (c) 2011 by Cisco Systems, Inc. */
/* All rights reserved */
/*-----------------------------------------------*/
/*
No license file was found, but licenses were detected in source scan.

/* $Id$ */
/* $Source$ */
/*-----------------------------------------------*/
/* pam_action.c : pam action api implementation */
/* June 2011, c3pl-dev */
/* Copyright (c) 2011, 2018 by Cisco Systems, Inc. */
/* All rights reserved. */
/*-----------------------------------------------*/
/*
BEGIN PAM_CLASS_ENUM

ENUM pam_class_type

# String to dump for debug commands.
ATTRIBUTE pam_class_debug
    TYPE char*
END ATTRIBUTE

ITEM PAM_CLASS_QOS
    LONG                        ""
    SHORT                       "QOS  
    ATTRIBUTE[pam_class_debug]  "QOS"
END ITEM

END ENUM

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

/* $Id$
 * $Source$
 *--------------------------------------------------------------
 * pam_ppm_shim.c : This file has routines which will be called
 * to intercept the ppm invocation. These routines
 * call the PAM apis which in turn call the PPM apis
 *
 * June 2011, c3pl-dev
 *
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 *--------------------------------------------------------------
 */

Found in path(s):
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No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *--------------------------------------------------------------
 * pam_class.c : pam class api implementation
 * routines
 * June 2011, c3pl-dev
 *
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 *--------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_class.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *--------------------------------------------------------------
 * pam_policy.c : pam policy api implementation
 * routines
 * June 2011, c3pl-dev
 *
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 *--------------------------------------------------------------
 */
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_action.h : includes for onep pam related
 * routines
 * June 2011, c3pl-dev
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 *------------------------------------------------------------------
 */

1.1447 libreport-filesystem 2.9.5-10.el8
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1.1448 cairo-gobject 1.15.12-3.el8

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Martin Richards
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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John R. Hauser
2018 January 20

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- ilasm round-trip testing blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/runtime/issues/11412 -->
    <IlasmRoundTripIncompatible>true</IlasmRoundTripIncompatible>
    <!-- Test unsupported outside of windows -->
    <CLRTestTargetUnsupported Condition="'$(TargetsWindows)' != 'true'">true</CLRTestTargetUnsupported>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="../ServerContracts/Server.CoClasses.cs" />
    <Compile Include="../ServerContracts/Server.Contracts.cs" />
    <Compile Include="../ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..../NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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1.1463 cyrus-sasl 2.1.27 5.el8

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       * Rob Siemborski
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1.1464 nailgun-server 0.9.1

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 * /opt/cola/permits/1201036694_1631045807.74/0/bcpg-fips-1-0-4-sources-1-jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java
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1.1468 e2fsprogs 1.45.6 1.el8
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#
# 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): $(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-shlibs-strip:: install-shlibs
uninstall-shlibs uninstall:: 
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 -  Unix SMB/CIFS implementation.
 +  trivial database library - standalone version
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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procfs provides functions to retrieve system, kernel and process
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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PackageManagement

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# $Id: configure.in 659 2016-03-17 06:20:36Z ume $

AC_PREREQ(2.57)
AC_INIT(Socket6.pm)
AC_CONFIG_SRCDIR(Socket6.pm)
AC_CONFIG_HEADER(config.h)

AC_PROG_CC

cangequote(<<, >>)
default_perl_path=`which perl | sed -e 's/\/*/[^\/]*/g'`
cangequote([],)

AC_ARG_WITH(perl,[ --with-perl=path-to-perl],
[ac_cv_path_perl=$withval
],
[AC_PATH_PROGS(perl,perl5 jperl5 perl jperl, /usr/local/bin:/opt/local/bin:/usr/bin:$default_perl_path:.)
])

if test x"$ac_cv_path_perl" = x""; then
AC_MSG_ERROR([Cannot find perl; please use --with-perl=/path/to/perl option.])
fi
PERLPATH=$ac_cv_path_perl

SOCKET6_CHECK_PL_SV_UNDEF(AC_DEFINE(Have_PL_SV_UNDEF,[1],[Do we have a pl_sv_UNDEF?] ),[$ac_cv_path_perl])

IPv6_CHECK_FUNC(getaddrinfo)
IPv6_CHECK_FUNC(getnameinfo)
IPv6_CHECK_FUNC(gethostbyname2)
IPv6_CHECK_FUNC(getipnodebyname)
IPv6_CHECK_FUNC(getipnodebyaddr)
IPv6_CHECK_FUNC(inet_pton)
IPv6_CHECK_FUNC(inet_ntop)

if test $ac_cv_lib_inet6_getaddrinfo = yes; then
INET6LIBS="-L$ac_cv_lib_inet6_dir/lib -linet6"
fi
IPv6_CHECK_INET_NTOP()  
IPv6_CHECK_SA_LEN()  
IPv6_CHECK_SIN6_SCOPE_ID()  
IPv6_CHECK_SOCKLEN_T()  

AC_SUBST(DEFINES)  
AC_SUBST(INET6LIBS)  
AC_SUBST(PERLPATH)  
AC_OUTPUT(config.pl gailookup.pl)  

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1028942260_1594032420.89/0/perl-Socket6-0.28-6.el8.src.rpm-cosi-expand-archive-Kwf79yY/Socket6-0.28.tar.gz-cosi-expand-archive-s38QbRSJ/Socket6-0.28/configure.in  

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---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Socket6
no_index:
directory:
  - t
  - inc
requires: {}
version: '0.28'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1028942260_1594032420.89/0/perl-Socket6-0.28-6.el8.src.rpm-cosi-expand-archive-Kwf79qyY/Socket6-0.28.tar.gz-cosi-expand-archive-s38QbRSJ/Socket6-0.28/META.yml

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Abstract

This module supports getaddrinfo() and getnameinfo() to intend to enable protocol independent programming.
If your environment supports IPv6, IPv6 related defines such as AF_INET6 are included.

Install

Extract archive file.
Change current directory to Socket6-xx.xx ("xx" is version number).
Type "perl Makefile.PL" to create Makefile.
Type "make" to build.
Type "make install" to install.

How to use

See "perldoc Socket6".

Acknowledgments

This package is mainly depend on perl5.005_55-v6-19990721 and ssh-1.2.27-IPv6-1.5. perl5.005_55-v6-19990721 was written by KAME Project and ssh-1.2.27-IPv6-1.5 was written by KIKUCHI Takahiro <kick@kyoto.wide.ad.jp>. Thank you very much.

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Socket6.pm and Socket6.xs are based on perl5.005_55-v6-19990721 written by KAME Project.

gai.h, getaddrinfo.c and getnameinfo.c are based on ssh-1.2.27-IPv6-1.5 written by KIKUCHI Takahiro <kick@kyoto.wide.ad.jp>.

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1.1485 requests-file 1.4.3

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1.1486 shared-mime-info 1.9 3.el8

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Cut.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ForwardingTable.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ArrayTable.java
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jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/PatternCompiler.java

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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/CompactLinkedHashSet.java
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  jar/com/google/common/collect/RegularImmutableMap.java
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  jar/com/google/common/collect/Collections2.java
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  jar/com/google/common/collect/ImmutableMapValues.java
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  jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collect/Range.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collect/UnmodifiableBiMap.java
jar/com/google/common/collect/Table.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Platform.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Tables.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedSet.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MultiEdgesConnecting.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/BaseGraph.java
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  jar/com/google/common/graph/Graph.java
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  jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/graph/ImmutableGraph.java
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  jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/escape/UnicodeEscaper.java
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jar/com/google/common/io/FileBackedOutputStream.java
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jar/com/google/common/net/InetAddresses.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Booleans.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/GwtTransient.java
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/**
**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODo(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/

Found in path(s):
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ObjectArrays.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
* *
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*/

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jar/com/google/common/collection/Hashing.java
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jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Platform.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ConsumingQueueIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CaseFormat.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/AbstractSetMultimap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/SingletonImmutableSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/AbstractMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ForwardingIterator.java
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jar/com/google/common/collect/MutableClassToInstanceMap.java
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jar/com/google/common/collect/ComparatorOrdering.java
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jar/com/google/common/base/FinalizableWeakReference.java
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jar/com/google/common/base/Objects.java
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jar/com/google/common/eventbus/Subscribe.java
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* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListenableFuture.java
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* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Files.java
* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Supplier.java
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* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Closeables.java
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* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Function.java
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 */
/**
 * Outer class that exists solely to let us write [ @code Partially.GwtIncompatible ] instead of plain
 * [ @code GwtIncompatible ]. This is more accurate for [ @link Futures#catching ], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [ @code PartiallyGwtIncompatible ] because then the GWT compiler wouldn't recognize
 * it as a [ @code GwtIncompatible ] annotation. And for [ @code Futures.catching ], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
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jar/com/google/common/math/Quantiles.java
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jar/com/google/common/eventbus/Subscriber.java
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jar/com/google/common/eventbus/Dispatcher.java
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jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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jar/com/google/common/collection/BaseImmutableMultimap.java
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  jar/com/google/common/collection/SortedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/SortedMultisets.java
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  jar/com/google/common/base/Verify.java
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  jar/com/google/common/base/HashingInputStream.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/Beta.java
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 */opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collections/ForwardingListMultimap.java
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 */

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1.1493 llvm 11.0.0-
2.module+el8.4.0+8598+a071fcd5
1.1493.1 Available under license:

# RUN: llc -O0 -mtriple=m68k -start-after=prologepilog -verify-machineinstrs %s -o - | FileCheck %s

name: is-pcrel-register-operand-legal
body:
bb.0.entry:
  ; CHECK: move.l (0,%pc,%a0), (%a1)
  ; CHECK: move.l (%a0), (0,%pc,%a1)
MOV32jk $a1, 0, $a0, implicit-def $ccr
MOV32kj 0, $a1, $a0, implicit-def $ccr
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; NOTE: Assertions have been autogenerated by util/tools/update_llvm_test_checks.py
; 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:
 ; CHECK: ; %bb.0:
 ; CHECK-NEXT: sshll2.2d v4, v2, #0
 ; CHECK-NEXT: sshll2.2d v5, v0, #0
; 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:       ; %bb.0:
  ; CHECK-NEXT:  scvtf.2d v0, v0, #6
  ; CHECK-NEXT:  scvtf.2d v1, v1, #6
  ; CHECK-NEXT:  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>
  ret <4 x double> %res
}

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subroutine firstprivate()
class(*), allocatable, save :: x

!WARNING: If a polymorphic variable with allocatable attribute 'x' is in FIRSTPRIVATE clause, the behavior is unspecified
!$omp parallel firstprivate(x)
call sub()
!$omp end parallel
end

subroutine lastprivate()
class(*), allocatable, save :: x

!WARNING: If a polymorphic variable with allocatable attribute 'x' is in LASTPRIVATE clause, the behavior is unspecified
!$omp do lastprivate(x)
do i = 1, 10
call sub()
enddo
!$omp end do
end

subroutine copyin()
class(*), allocatable, save :: x
!$omp threadprivate(x)

!WARNING: If a polymorphic variable with allocatable attribute 'x' is in COPYIN clause, the behavior is unspecified
!$omp parallel copyin(x)
call sub()
!$omp end parallel
end
subroutine copyprivate()
  class(*), allocatable, save :: x
!$omp threadprivate(x)

!WARNING: If a polymorphic variable with allocatable attribute 'x' is in COPYPRIVATE clause, the behavior is unspecified
!$omp single copyprivate(x)
  call sub()
!$omp end single
end

; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s | FileCheck %s

; 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)
  ret <vscale x 2 x double> %res
}

; 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
}

define void @zext256() "min-legal-vector-width"="256" {
  ; AVX-LABEL: `zext256'
}
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 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 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'zext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; 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

; SKX256-LABEL: 'zext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 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: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 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 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 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 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; 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-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
define void @sext256() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'sext256'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 5 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>

    %A = sext <8 x i16> undef to <8 x i64>
    %B = sext <8 x i32> undef to <8 x i64>
    %C = sext <16 x i8> undef to <16 x i32>
    %D = sext <16 x i16> undef to <16 x i32>
    %E = sext <32 x i8> undef to <32 x i16>
    ret void
}
; 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 5 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: 'sext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-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

; SKX256-LABEL: 'sext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 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: '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 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 5 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 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX512-LABEL: 'sext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = sext <8 x i8> undef to <8 x i64> 
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>

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%F = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @trunc256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'trunc256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
    ; VEC256-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>
    ;
    ; 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 4 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 4 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 3 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %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 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKXX56-LABEL: 'zext256_vXi1'
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKXX56-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; 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 4 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
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: %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 2 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 2 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 2 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ret i32 undef 
}
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; 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 8 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 34 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>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

AVX512VL512-NEXT: '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>
x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKXX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKXX256-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 4 for instruction: \%V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 4 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>
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Arne Beer <arne@twobeer.de>
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@PLT
; 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@PLT
; CHECK-NEXT: testl %ebx, %ebx
; CHECK-NEXT: .LBB0_2: ig.
; CHECK-NEXT: # %bb.1:
; CHECK-NEXT: xorps %xmm0, %xmm0
; CHECK-NEXT: .LBB0_2:
; CHECK-NEXT: addq $32, %rsp
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: popq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
; CHECK-NEXT: cmp = fcmp ogt fp128 %a, %b
; CHECK-NEXT: sub = fsub fp128 %a, %b
; CHECK-NEXT: res = select i1 cmp, fp128 sub, fp128 0xL00000000000000000000000000000000
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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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........................................................................................................

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s | FileCheck %s

; 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.
define void @masked_scatter_nv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <scale x 2 x i1> %masks) {
  call void @llvm.masked.scatter.nv2f16(<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.

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.

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
}

; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --check-attributes --check-globals
; 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________OPM,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NP
Test that we only promote arguments when the caller/callee have compatible function attributes.

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

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 {

; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; 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:[0-9]+]]

; 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: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS________NPM-LABEL: define
{ [{^@}] } @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%]], <8 x i64> [[TMP0:.%]]) #[[ATTR0:[0-9]+]]

; IS________NPM-NEXT: bb:
; IS________NPM-NEXT: [[ARG1_PRIV:.%]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT: [[TMP:.%]] = load <8 x i64>, <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
```

```c
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
```
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint norefree nosync nounwind willreturn uwtable
; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (8 x i64)* nocapture norefree writeonly [[ARG:%.*]] #[[ATTR0]]
; 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 norefree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__TUNIT_OPM-NEXT: call fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* nocapture norefree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norefree nonnull readonly align 64 dereferenceable(64) [[TMP]] #[[ATTR7:[0-9]+]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint norefree nosync nounwind willreturn uwtable
; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (8 x i64)* nocapture norefree writeonly [[ARG:%.*]] #[[ATTR0]]
; 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 norefree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5:[0-9]+]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* noalias nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]] #[[ATTR6:[0-9]+]]
; 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 nosync nounwind willreturn uwtable
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (8 x i64)* nocapture norefree 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 norefree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6:[0-9]+]]
; IS__CGSCC_OPM-NEXT: call fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norefree nonnull readonly align 64 dereferenceable(64) [[TMP]] #[[ATTR6:[0-9]+]]
align 64 dereferenceable(64) [[TMP]] #[[ATTR7:[0-9]+]]
; 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 willreturn uwt
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
call void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:*]] #[[ATTR0:[0-9]+]])
; 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 fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<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_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ...

; IS______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS______OPM-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ...

; 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
define void @avx512_legal512_prefer256_call_avx512_legal512_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 @avx512_legal512_prefer256_call_avx512_legal512_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 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS______TUNIT_OPM-LABEL: define
}
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; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef 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 nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; IS__CGSCC_NPM-NEXT:   [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:   call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]]) #[[ATTR6]]
; IS__CGSCC_NPM-NEXT:   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; 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 {
; IS_______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS_______OPM-LABEL: define
| {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_______OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]]) #[[ATTR0]] {
; IS_______OPM-NEXT: bb:
; IS_______OPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], 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: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS_______NPM-LABEL: define
| {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
%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>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], <8 x i64>*, i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
%tmp4 = load <8 x i64>, <8 x i64>* [[TMP4]], <8 x i64>* [[ARG]], align 2
%tmp5 = load <8 x i64>, <8 x i64>* [[TMP5]], <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 {

; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS________OPM-LABEL: define
{ [([^@]+)] } @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; 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:.%*]]) #[[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: argmemonly inlinehint nofree norecurse nosync nounwind willreturn uwtable
; IS________NPM-LABEL: define
{ [([^@]+)] } @callee_avx512_legal256_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>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.%*]]) #[[ATTR1]]

; IS________NPM-NEXT: bb:
; IS________NPM-NEXT: [[TMP:.%*]] = load <8 x i64>, <8 x i64>* [[ARG1]], 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
}
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 {
  ; IS__TUNIT_OPM: Function Attrs: argmemonly inlineinherent nofree nocapture norecurse nosync nounwind willreturn uwttable
  ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]]
  ; 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 nocapture nofree noundef nofree noundef noundef align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
    ; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonull 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 inlineinherent nofree nocapture norecurse nosync nounwind willreturn uwttable
  ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree 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 nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
    ; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef 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 inlineinherent nofree nocapture norecurse nosync nounwind willreturn uwttable
  ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; 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 32 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_legal256_prefer256(<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_OPM-NEXT: [ ]
:: IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind willreturn uwtable
:: IS__CGSCC_NPM-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
:: IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef 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* align 32 %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
noundef nonnull readonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
:: 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-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_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_legal1256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
:: IS_______OPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind willreturn uwtable
:: IS_______OPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal1256_prefer256
: IS_________OPM-SAME: (<8 x i64>* nocapture nolive undef nonnull writeonly align 64 dereferenceable(64) [[ARG:%%.*]]), <8 x i64>* nocapture nolive undef nonnull readonly align 64 dereferenceable(64) [[ARG1:%%.*]]) #[[ATTR3:[0-9]+]]
}

; 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: argmemonly inlinehint nolive norecurse nolive noundef willreturn uwtable
; IS_________NPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS_________NPM-SAME: (<8 x i64>* noalias nocapture nolive undef nolive writeonly align 64 dereferenceable(64) [[ARG:%%.*]], <8 x i64> [[TMP0:%%.*]]) #[[ATTR3:[0-9]+]]

; IS_________NPM-NEXT: bb:
; IS_________NPM-NEXT: [[ARG1_PRIV:%%.*]] = alloca <8 x i64>, align 64
; IS_________NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS_________NPM-NEXT: [[TMP:%%.*]] = load <8 x i64>, <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 @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {

; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nolive norecurse nolive noundef willreturn uwtable
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nolive nolive writeonly [[ARG:%%.*]] #[[ATTR4:[0-9]+]]

; 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 nolive nolive nolive writeonly align 32 dereferenceable(64) [[TMP3]], i8 nolive 0, i64 nolive 32, i1 nolive false) #[[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcall void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nolive nolive writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nolive nolive 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 nolive norecurse nolive noundef willreturn uwtable
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nolive writeonly [[ARG:%%.*]] #[[ATTR3]]

; 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* %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>* %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 {

;

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {

;

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {

;
; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]]
; 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: callvoid @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [][TMP3], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR6]]
; IS__UNIT_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<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__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 willreturn uwtable
; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]]
; 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: callvoid @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [][TMP3], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] =load <8 x i64>, <8 x i64>* [][TMP], align 64
; IS__UNIT_NPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [][TMP2], <8 x i64> [][TMP0]) #[[ATTR6]]
; 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 willreturn uwtable
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]]
; 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: callvoid @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 32 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_legal512_prefer256(<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 nofree norecurse nosync nounwind willreturn uwtable
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) #[[#ATTR3]]
; 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 32 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[#ATTR5]]
; IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-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> [[TMP0]]) #[[#ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

; ; IS__TUNIT_OPM: attributes #[[#ATTR0]] = { argmemonly inlinehint nofree norecurse nosync nounwind

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willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl"  
; IS__UNIT_OPM: attributes #[[ATTR1]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_OPM: attributes #[[ATTR2]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_OPM: attributes #[[ATTR3]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_OPM: attributes #[[ATTR4]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_OPM: attributes #[[ATTR5::[0-9]+]] = { argmemonly nofree norecurse nosync nounwind willreturn writeonly  
; IS__UNIT_OPM: attributes #[[ATTR6]] = { willreturn writeonly  
; IS__UNIT_OPM: attributes #[[ATTR7]] = { nofree nosync nounwind willreturn  
;
; IS__UNIT_NPM: attributes #[[ATTR0]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl"  
; IS__UNIT_NPM: attributes #[[ATTR1]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_NPM: attributes #[[ATTR2]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_NPM: attributes #[[ATTR3]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__UNIT_NPM: attributes #[[ATTR4::[0-9]+]] = { argmemonly nofree norecurse nosync nounwind willreturn writeonly  
; IS__UNIT_NPM: attributes #[[ATTR5]] = { willreturn writeonly  
; IS__UNIT_NPM: attributes #[[ATTR6]] = { nofree nosync nounwind willreturn  
;
; IS__CGSCC_OPM: attributes #[[ATTR0]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl"  
; IS__CGSCC_OPM: attributes #[[ATTR1]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_OPM: attributes #[[ATTR2]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_OPM: attributes #[[ATTR3]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_OPM: attributes #[[ATTR4]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_OPM: attributes #[[ATTR5::[0-9]+]] = { argmemonly nofree norecurse nosync nounwind willreturn writeonly  
; IS__CGSCC_OPM: attributes #[[ATTR6]] = { willreturn writeonly  
; IS__CGSCC_OPM: attributes #[[ATTR7]] = { nounwind willreturn  
;
; IS__CGSCC_NPM: attributes #[[ATTR0]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl"  
; IS__CGSCC_NPM: attributes #[[ATTR1]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_NPM: attributes #[[ATTR2]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_NPM: attributes #[[ATTR3]] = { argmemonly inlinehint nofree norecurse nosync nounwind  
willreturn uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl"  
; IS__CGSCC_NPM: attributes #[[ATTR4::[0-9]+]] = { argmemonly nofree norecurse nosync nounwind willreturn writeonly  
; IS__CGSCC_NPM: attributes #[[ATTR5]] = { willreturn writeonly  
; IS__CGSCC_NPM: attributes #[[ATTR6]] = { nofree nosync nounwind willreturn  
;
; IS__CGSCC_NPM: attributes #[[ATTR7]] = { nounwind willreturn  
;

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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 utils/update_test_checks.py UTC_ARGS: --include-generated-funcs
; RUN: opt -S -verify -iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test checks that we do outline indirect calls when it is not specified; that we should not.

define void @function1(void()* %func) {
entry:
  %a = alloca i32, align 4
  %b = alloca i32, align 4
  %c = alloca i32, align 4
  store i32 2, i32* %a, align 4
  store i32 3, i32* %b, align 4
  store i32 4, i32* %c, align 4
  call void %func()
  %al = load i32, i32* %a
  %bl = load i32, i32* %b
  %cl = load i32, i32* %c
  ret void
}

define void @function2(void()* %func) {
entry:
  %a = alloca i32, align 4
  %b = alloca i32, align 4
  %c = alloca i32, align 4
store i32 2, i32* %a, align 4
store i32 3, i32* %b, align 4
store i32 4, i32* %c, align 4
call void %func()
%al = load i32, i32* %a
%bl = load i32, i32* %b
%cl = load i32, i32* %c
ret void
}

; CHECK-LABEL: @function1
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], void ()* [[FUNC:%.*]])
; CHECK-NEXT: ret void

; CHECK-LABEL: @function2
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], void ()* [[FUNC:%.*]])
; CHECK-NEXT: ret void

; CHECK-LABEL: define internal void  @outlined_ir_func_0
; CHECK-NEXT: newFuncRoot:
; CHECK-NEXT: br label [[ENTRY_TO_OUTLINE:%.*]]
; CHECK:       entry_to_outline:
; CHECK-NEXT: store i32 2, i32* [[TMP0:%.*]], align 4
; CHECK-NEXT: store i32 3, i32* [[TMP1:%.*]], align 4
; CHECK-NEXT: store i32 4, i32* [[TMP2:%.*]], align 4
; CHECK-NEXT: call void [[TMP3:%.*]]()
; CHECK-NEXT: [[AL:%.*]] = load i32, i32* [[TMP0]], align 4
; CHECK-NEXT: [[BL:%.*]] = load i32, i32* [[TMP1]], align 4
; CHECK-NEXT: [[CL:%.*]] = load i32, i32* [[TMP2]], align 4
; CHECK-NEXT: br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
; CHECK:       entry_after_outline.exitStub:
; CHECK-NEXT: ret void

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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
br label %CF248
}

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define i32 @foo() #0 {
  call void @bar(<32 x half>* undef)
  ret i32 0
}

define internal void @bar(<32 x half>*) #0 {
  %2 = load <32 x half>, <32 x half>* %0, align 4
  ret void
}

attributes #0 = { uwtable "min-legal-vector-width"="0" }
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RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--mulsleabi"

; 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:  %[[M3:const_mat[0-9]?!]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M4:const_mat[0-9]?!]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %8 = inttoptr i32 %[[M4]] 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:  %[[M5:const_mat[0-9]?!]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %11 = inttoptr i32 %[[M5]] 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:  %[[M6:const_mat[0-9]?!]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %13 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo
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: %\[M4:const_mat[0-9]?\] = 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
  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_ltc_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
vpmadddw+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:    vpadd 32(%rsi), %ymm1, %ymm1
  CHECK-NEXT:    vpadd (%rsi), %ymm0, %ymm0
  CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
  CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
  CHECK-NEXT:    vzeroupper
  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-vectorwidth"="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 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, 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" {

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; CHECK-LABEL: avg_v64i8_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpavgb (%rsi), %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 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 2
%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: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpmaddwd vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vpmaddwd vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, %i32 2, %i32 4, %i32 6, %i32 8, %i32 10, %i32 12, %i32 14, %i32 16, %i32 18, %i32 20, %i32 22, %i32 24, %i32 26, %i32 28, %i32 30
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, %i32 3, %i32 5, %i32 7, %i32 9, %i32 11, %i32 13, %i32 15, %i32 17, %i32 19, %i32 21, %i32 23, %i32 25, %i32 27, %i32 29, %i32 31
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
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:    vkmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vkmovdwa64 (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void

define 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:    vkmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vkmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; 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 dso_local 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 dso_local 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), %ymmm4
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymmm5
; CHECK-NEXT: vpmaddwd %ymmm3, %ymmm5, %ymmm3
; CHECK-NEXT: vpadd %ymmm2, %ymmm3, %ymmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymmm3
; CHECK-NEXT: vpmaddwd %ymmm4, %ymmm3, %ymmm3
; CHECK-NEXT: vpadd %ymmm1, %ymmm3, %ymmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymmm0, %ymmm1, %ymmm1
; CHECK-NEXT: vpadd %ymmm0, %ymmm2, %ymmm0
; CHECK-NEXT: vpadd %ymmm0, %ymmm1, %ymmm0
; CHECK-NEXT: vextracti128 $1, %ymmm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT: vpadd %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> [ %index.next, %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> %9, %6
  %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 unde
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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
%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
%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 unde
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>
  %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>
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> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x 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> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x 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> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x 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 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: vpsadbwb b+1024(%rax), %xmm1, %xmm1
  ; 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: vpsubudq {{.*#+}} xmm1 = xmm0[2,3,2,3]
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vpsadwb {{.*#+}} xmm1 = xmm0[1,1,1,1]
  ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vmovd %zmm0, %eax
  ; CHECK-NEXT: vzeroupper
  ; entry:
  ; br label %vector.body

  vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %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
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>
%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>
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

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
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: vcvtq2ps %zmm0, %zmm0
  ; 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 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: vcvtq2pd %xmm0, %ymm1
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm2
  ; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
  ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
  ; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
  ; 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 dso_local void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define dso_local void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define dso_local 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:  vcmppd %zmm0, %zmm0
    ; CHECK-NEXT:  cmp recip %k0, %k0
    ; CHECK-NEXT:  cmp recip %zmm0, %zmm0
    ; CHECK-NEXT:  cmp recip %zmm0, %zmm0
    ; 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:
; # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vshiftrw $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: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, 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 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 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_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 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 = ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpmullw %ymm5, %ymm4, %ymm5
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpunpcklhw {{.*#+}} ymm3 = ymm3[0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpcklhw {{.*#+}} ymm1 = ymm1[0,0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]

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; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpunpcklhw {{.*#+}} ymm2 =
  ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:    vpunpcklhw {{.*#+}} ymm0 =
  ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:    vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vmovdqa %ymm0, (%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[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm3 =
  ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpmullw %ymm3, %ymm1, %ymm3
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm3 =
  [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:    vperm2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
  ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:    vpunpcklhw {{.*#+}} ymm2 =
  ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpunpcklhw {{.*#+}} ymm0 =
  ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT:    vperm2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT:    vmovdqa %ymm1, 32(%rdx)
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[10,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,
        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-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
        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-AVX512-NEXT: vpmullw %zmm2, %zmm2, %zmm2
    CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm2, %zmm2
    CHECK-AVX512-NEXT: vzeroupper
    CHECK-AVX512-NEXT: retq
    }
}

; CHECK-VBMI-LABEL: vzeroupper
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    zmm1[10,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,
    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-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm3 =
    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]
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: vpmovqd %ymm3, %xmm2
    ; CHECK-NEXT: vinserti128 $1, %xmm2, %ymm1, %ymm1
    ; CHECK-NEXT: retq
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64> %a to <16 x i32>
    ret <16 x i32> %b
}

define <16 x i8> @trunc_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: vpmovqb %ymm3, %xmm3
    ; CHECK-NEXT: retq
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64> %a to <16 x i8>
    ret <16 x i8> %b
}

define <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

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  %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" {
  %a = load <8 x i64>, <8 x i64>* %x
  %b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
  %c = trunc <8 x i64> %b to <8 x i32>
  ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
  %a = load <16 x i32>, <16 x i32>* %x
  %b = lshr <16 x i32> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
  %c = trunc <16 x i64> %b to <16 x i16>
  ret <16 x i16> %c
}
define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:    # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:    # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-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> 
%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
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:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq

%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <32 x i16>* %x
%c = trunc <32 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

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:       # %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:    vpmovzxbw {{.*#+}} ymm2 =
    xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],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:    vpsllw8 {{.*#+}} ymm2 =
    xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],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:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpsllw8 {{.*#+}} ymm3 =
    xmm3[0],zero,xmm3[1],zero,xmm3[2],zero,xmm3[3],zero,xmm3[4],zero,xmm3[5],zero,xmm3[6],zero,xmm3[7],zero,
    xmm3[8],zero,xmm3[9],zero,xmm3[10],zero,xmm3[11],zero,xmm3[12],zero,xmm3[13],zero,xmm3[14],zero,xmm3[15],zero
}
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 %ymm3, 32(%rdx)
    ; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 (%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 <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 i64>* %p, <16 x i64>* %q, <16 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v16i8_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 %ymm2, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <16 x i64>, <16 x i64>* %p
    %y = load <16 x i64>, <16 x i64>* %q
    %a = icmp eq <16 x i8> %s, %t
    %b = select <16 x i1> %a, <16 x i64> %x, <16 x i64> %y
    store <16 x i64> %b, <16 x i64>* %r
    ret void
}
; 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:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrw $8, %k1, %k2
; CHECK-NEXT:  vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}
define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:     # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  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 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 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: 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> %c
%d = icmp sgt <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>
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 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), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftrd $1, %k0, %k1
; CHECK-NEXT: kshifltrq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: kshifltrq $63, %k1, %k1
; CHECK-NEXT: kshiftrq $63, %k1, %k1
; 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:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBBF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %k2
; CHECK-NEXT:  kshiflq $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:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $52, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4097, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $13, %k0, %k2
; CHECK-NEXT:  kshiflq $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:  kshiflq $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:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFEFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiflq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; 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:    kshiftlq $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:    kshiftlq $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:    kshiftlq $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:    kshiftlq $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:    kshiftlq $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:    kshiftlq $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:    kshiftlq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT: korq %k2, %k0, %k0  
; CHECK-NEXT: movabsq $-137438953473, %rax # imm = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; 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 = 0xFFFFFFFFFFFFFFFF  
; CHECK-NEXT: kmovq %rax, %k2  
; CHECK-NEXT: kandq %k2, %k0, %k0  
; CHECK-NEXT: kshiftrd $10, %k1, %k2  
; CHECK-NEXT: kshiftlq $63, %k2, %k2  
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $14, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $16, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $17, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $15, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $16, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $14, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1125899906842625, %rax # imm = 0xFFFBBFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $19, %k1, %k2
; 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 $-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:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $26, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $4, %k2, %k2
; CHECK-NEXT:  korq %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:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $28, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $2, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $31, %k1, %k2
; CHECK-NEXT:  kshiftlq $62, %k2, %k2
; CHECK-NEXT:  kshiftrq $1, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2097152, %rax # imm = 0x3F7FFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $30, %k1, %k2
; CHECK-NEXT:  kshiftlq $61, %k2, %k2
; CHECK-NEXT:  kshiftrq $1, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1048576, %rax # imm = 0x1F7FFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $32, %k1, %k2
; CHECK-NEXT:  kshiftlq $60, %k2, %k2
; CHECK-NEXT:  kshiftrq $32, %k2, %k2
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zero
%shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> %i32 1, %i32 2, %i32 3, %i32 4, %i32 5, %i32 6, %i32 9, %i32 10, %i32 11, %i32 12, %i32 13, %i32 14, %i32 15, %i32 16, %i32 17, %i32 19, %i32 21, %i32 22, %i32 23, %i32 25, %i32 26, %i32 27, %i32 28, %i32 30, %i32 31, %i32 32, %i32 33, %i32 34, %i32 35, %i32 36, %i32 37, %i32 38, %i32 39, %i32 40, %i32 41, %i32 42, %i32 43, %i32 45, %i32 46, %i32 47, %i32 48, %i32 49, %i32 50, %i32 51, %i32 52, %i32 53, %i32 55, %i32 56, %i32 57, %i32 58, %i32 59, %i32 60, %i32 61, %i32 62, %i32 63, %i32 62
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8,endian>%, %y, %i32 1, <64 x i1>, %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, <64 x i8>*, <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 mem64_src(%rip), %k0
 ; CHECK-NEXT:    #APP
 ; CHECK-NEXT:    #NO_APP
 ; CHECK-NEXT:    kmovq %k0, mem64_dst(%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>* %y.ptr, <8 x i64>* %z.ptr) "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:    vpcmpeqgt 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT:    vpcmpeqgt (%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>* %y.ptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
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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: vpcmpeqq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpeqq (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpslrlq $63, %ymm1, %ymm1
; CHECK-NEXT: vpslrlq %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-AVX512-LABEL: var_rotate_v16i8:
; CHECK-AVX512:
   # %bb.0:
; CHECK-AVX512-NEXT: vpand {\?.LCPI[0-9]+,\_[0-9]+,\_}(\%rip), %xmm1, %xmm1
; CHECK-AVX512-NEXT: vpmovzxvw {\_.?HV[0-9]+,\_[0-9]+} ymm1 =
   xmm1[0],zero,ymm1[1],zero,ymm1[2],zero,ymm1[3],zero,ymm1[4],zero,ymm1[5],zero,ymm1[6],zero,ymm1[7],zero,
   ymm1[8],zero,ymm1[9],zero,ymm1[10],zero,ymm1[11],zero,ymm1[12],zero,ymm1[13],zero,ymm1[14],zero,ymm1[15],zero
; CHECK-AVX512-NEXT: vpmovzxvw {\_.?HV[0-9]+,\_[0-9]+} 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-AVX512-NEXT: vpshufb {\_.?HV[0-9]+,\_[0-9]+} ymm0 =
   ymm0[0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32]
; CHECK-AVX512-NEXT: vpsllvw %ymm1, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpsrlw %8, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpmovwb %ymm0, %xmm0
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: var_rotate_v16i8:
; CHECK-VBMI:
   # %bb.0:
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:    vpand {{\?LCPI[0-9]+_[0-9]+}}(%rip), %ymm1, %ymm1
    ; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
        ymm1[8],ymm2[8],ymm1[9],ymm2[9],ymm1[10],ymm2[10],ymm1[11],ymm2[11],ymm1[12],ymm2[12],ymm1[13],ymm2[13],ymm1[14],ymm2[14],ymm1[15],ymm2[15],ymm1[16],ymm2[16],ymm1[17],ymm2[17],ymm1[18],ymm2[18],ymm1[19],ymm2[19],ymm1[20],ymm2[20],ymm1[21],ymm2[21],ymm1[22],ymm2[22],ymm1[23],ymm2[23]
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
        ymm0[8],ymm0[9],ymm0[10],ymm0[11],ymm0[12],ymm0[13],ymm0[14],ymm0[15],ymm0[16],ymm0[17],ymm0[18],ymm0[19],ymm0[20],ymm0[21],ymm0[22],ymm0[23],ymm0[24],ymm0[25],ymm0[26],ymm0[27],ymm0[28],ymm0[29],ymm0[30],ymm0[31]
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm5 =
        ymm1[0],ymm2[0],ymm1[1],ymm2[1],ymm1[2],ymm2[2],ymm1[3],ymm2[3],ymm1[4],ymm2[4],ymm1[5],ymm2[5],ymm1[6],ymm2[6],ymm1[7],ymm2[7],ymm1[16],ymm2[16],ymm1[17],ymm2[17],ymm1[18],ymm2[18],ymm1[19],ymm2[19],ymm1[20],ymm2[20],ymm1[21],ymm2[21],ymm1[22],ymm2[22],ymm1[23],ymm2[23]
    ; CHECK-NEXT:    vpxor %xmm2, %ymm5, %ymm5
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm6 =
        ymm1[0],zero,ymm1[1],zero,ymm1[2],zero,ymm1[3],zero,ymm1[4],zero,ymm1[5],zero,ymm1[6],zero,ymm1[7],zero,ymm1[8],zero,ymm1[9],zero,ymm1[10],zero,ymm1[11],zero,ymm1[12],zero,ymm1[13],zero,ymm1[14],zero,ymm1[15],zero
    ; CHECK-NEXT:    vpsllvw %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpsrlw $8, %ymm0, %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, 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
}

%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: vpunpckhbw {{.*#+}} ymm2 =
ymm0[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32]
; CHECK-NEXT: vpsllw %xmm1, %ymm2, %ymm2
; CHECK-NEXT: vpsrlw %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm2, %ymm0, %ymm0
; CHECK-NEXT: retq

%splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
%splat8 = sub <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: constant_rotate_v32i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm1 =
ymm0[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32]
; CHECK-NEXT: vpsllw %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpsrlw %ymm0, %ymm0
; CHECK-NEXT: retq

; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
ymm0[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32]
; CHECK-NEXT: vpsllw %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm1, %ymm0, %ymm0
; CHECK-NEXT: retq
define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: splatconstant_rotate_v32i8:  
    ; CHECK:    # %bb.0:  
    ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1  
    ; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0  
    ; CHECK-NEXT: vpternlogq $216, {{\LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %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>  
    %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>  
    %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, {{\LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %ymm1, %ymm0  
    ; CHECK-NEXT: vpand {{\LCPI[0-9]+_[0-9]+}}(%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>  
    %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>  
    %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>  
    %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>  
    %or = or <32 x i8> %lmask, %rmask  
    ret <32 x i8> %or  
}  

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This test checks that debug info is recognized as able to be extracted along
with the other instructions, but is not included in the consolidated function.

```assembly
define void @function1() !dbg !6 {
  entry:
  %a = alloca i32, align 4, !dbg !17
  call void @llvm.dbg.value(metadata i32* %a, metadata !9, metadata !DIExpression()), !dbg !17
  %b = alloca i32, align 4, !dbg !18
  call void @llvm.dbg.value(metadata i32* %b, metadata !11, metadata !DIExpression()), !dbg !18
  %c = alloca i32, align 4, !dbg !19
  call void @llvm.dbg.value(metadata i32* %c, metadata !12, metadata !DIExpression()), !dbg !19
  store i32 2, i32* %a, align 4, !dbg !20
  store i32 3, i32* %b, align 4, !dbg !21
  store i32 4, i32* %c, align 4, !dbg !22
  %al = load i32, i32* %a, align 4, !dbg !23
  call void @llvm.dbg.value(metadata i32 %al, metadata !13, metadata !DIExpression()), !dbg !23
  %bl = load i32, i32* %b, align 4, !dbg !24
  call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
  %cl = load i32, i32* %c, align 4, !dbg !25
  call void @llvm.dbg.value(metadata i32 %cl, metadata !16, metadata !DIExpression()), !dbg !25
  ret void, !dbg !26
}

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
  call void @llvm.dbg.value(metadata i32* %c, metadata !31, metadata !DIExpression()), !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
}
```
; CHECK-LABEL: @function1()
; CHECK-NEXT:  entry:
    [[A:%.*]] = alloca i32, align 4, !dbg [[DBG17:![0-9]+]]
    call void @llvm.dbg.value(metadata i32* [[A]], metadata [[META9:![0-9]+]], metadata !DIExpression()), !dbg [[DBG17]]
    [[B:%.*]] = alloca i32, align 4, !dbg [[DBG18:![0-9]+]]
    call void @llvm.dbg.value(metadata i32* [[B]], metadata [[META11:![0-9]+]], metadata !DIExpression()), !dbg [[DBG18]]
    [[C:%.*]] = alloca i32, align 4, !dbg [[DBG19]]
    call void @llvm.dbg.value(metadata i32* [[C]], metadata [[META12:![0-9]+]], metadata !DIExpression()), !dbg [[DBG19]]
    call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), !dbg [[DBG20:![0-9]+]]
    ret void, !dbg [[DBG21:![0-9]+]]

; CHECK-LABEL: @function2(
; CHECK-NEXT:  entry:
    [[A:%.*]] = alloca i32, align 4, !dbg [[DBG30:![0-9]+]]
    call void @llvm.dbg.value(metadata i32* [[A]], metadata [[META24:![0-9]+]], metadata !DIExpression()), !dbg [[DBG30]]
    [[B:%.*]] = alloca i32, align 4, !dbg [[DBG31:![0-9]+]]
    call void @llvm.dbg.value(metadata i32* [[B]], metadata [[META25:![0-9]+]], metadata !DIExpression()), !dbg [[DBG31]]
    [[C:%.*]] = alloca i32, align 4, !dbg [[DBG32]]
    call void @llvm.dbg.value(metadata i32* [[C]], metadata [[META26:![0-9]+]], metadata !DIExpression()), !dbg [[DBG32]]
    call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), !dbg [[DBG33:![0-9]+]]
    ret void, !dbg [[DBG34:![0-9]+]]

; CHECK: @outlined_ir_func_0(i32* [[TMP0:%.*]], i32* [[TMP1:%.*]], i32* [[TMP2:%.*]])
; CHECK:    entry_to_outline:
    store i32 2, i32* [[TMP0]], align 4
    store i32 3, i32* [[TMP1]], align 4
    store i32 4, i32* [[TMP2]], align 4
    [[AL:%.*]] = load i32, i32* [[TMP0]], align 4
    [[BL:%.*]] = load i32, i32* [[TMP1]], align 4
    [[CL:%.*]] = load i32, i32* [[TMP2]], align 4
    br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes

RUN: opt -S -passes=argpromotion < %s | FileCheck %s

Test that we only promote arguments when the caller/callee have compatible function attributes.

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

This should promote

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

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

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; CHECK-LABEL: define [([^@]+)]@avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; 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>* [[TMP2]] 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>* %tmp, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
This should promote

```c
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
}
```

This should promote

```c
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
  i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT: ret void

  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
  i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
```

This should promote

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

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  bb:
  %tmp = 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
}
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ; CHECK-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT: ret void
    
    bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<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 not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
    <8 x i64>* readonly %arg1) #2 {
    ; CHECK-LABEL: define {{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    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

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
}

%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_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
}

; CHECK-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP2]] 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>* [[TMP2]])
; 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 {
  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_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  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_legal512_prefer256(<8 x i64>* %arg) #3 {
  bb:
    [[TMP:%.*]] = alloca <8 x i64>, align 32
    [[TMP2:%.*]] = alloca <8 x i64>, align 32
    [[TMP3:%.*]] = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    %tmp4 = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT: ret i32 [[C]]
;
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT: [[A:%.*]] = alloca i32
; CHECK-NEXT: store i32 1, i32* [[A]]
; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT: [[C:%.*]] = call i32 @scalar_callee_avx512_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_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]

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define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 %A, i32* %B)
    ret i32 %C
}

define i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A)
{
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 %A)
    ret i32 %C
}

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }

attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="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 -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

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


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

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%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> zeroinitializer
%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
%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" }
static_library("BSD-Archive") {
  output_name = "lldbPluginObjectContainerBSDArchive"
  configs += [ "//llvm/utils/gn/build:lldb_code" ]
  deps = [
    "/lldb/source/Core",
    "/lldb/source/Host",
    "/lldb/source/Symbol",
    "/llvm/lib/Symbol",
  ]
  sources = [ "ObjectContainerBSDArchive.cpp" ]
}

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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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*/

Found in path(s):
* /opt/cola/permits/1110923281_1606872523.61/0/json-20131018-sources-1-jar/org/json/JSONStringer.java
* /opt/cola/permits/1110923281_1606872523.61/0/json-20131018-sources-1-jar/org/json/JSONWriter.java

1.1497 faraday-net_http_persistent 1.2.0

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1.1498 system-configuration-manager 5.0.0.0

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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$_NuGet.Configuration
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$_NuGet.Packaging.Core.Types
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%%_bindir
mkdir -p ${RPM_BUILD_ROOT}%%_mandir/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%%_sbindir

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
SBINDIR=%%{_sbindir} MANDIR=%%{_mandir} \ 
install
install -m755 -d ${RPM_BUILD_ROOT}%%_sysconfdir/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%%_sysconfdir/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || : 

%postun server
if [ $1 = 0 ]; then
 /sbin/service xinetd reload > /dev/null 2>&1 || : 
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{sbindir}/in.tftpd
%{mandir}/man8/*
%%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.
* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
  * /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftp.spec.in

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %(_smp_mflags)

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \ 
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \ 
    install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || : 

%postun server
if [ $1 = 0 ]; then 
    /sbin/service xinetd reload > /dev/null 2>&1 || : 
fi 

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{sysconfdir}/xinetd.d/tftp
%dir /tftpboot
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    - removed completely broken "Malta" patch.
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  - Add /tftpboot directory (#88204)

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  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
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  - Update to 0.30

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  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
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  - Remove include/arpa/tftp.h to fix #57259
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* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
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  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
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  - don’t let configure to guess compiler, it can pick up egcs

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  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
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  - drop dependency on xinetd for tftp client (#25051),

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  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
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* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).
* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

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  - FHS packaging.
  - update to 0.17.

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  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

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  - fix description

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  - compress man pages (again).

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* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

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  - compile for 6.0.

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  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr
* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

" -*- nroff -*- --------------------------------------------------------- *
" 
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" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
" SUCH DAMAGE.
" 
"="/ 

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/* *----------------------------------------------------------------------- *
 * Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
 * This program is free software available under the same license
 * as the "OpenBSD" operating system, distributed at
 * http://www.openbsd.org/
 *
 * *----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASNTftp
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASNTftp
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftpd/recvfrom.h
No license file was found, but licenses were detected in source scan.

/* *----------------------------------------------------------------------- *
 * Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
 * This program is free software available under the same license
 * as the "OpenBSD" operating system, distributed at
 * http://www.openbsd.org/
 *
 * *----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASNTftp
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASNTftp
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASNTftp
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

/*
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 * The Regents of the University of California. All rights reserved.
 *
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 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright

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* without specific prior written permission.
*
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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* /

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp-
  hpa-5.2.tar.bz2-cosi-expand-archive-GzA4oRTj/tftp-hpa-5.2/tftp/tftp.c
No license file was found, but licenses were detected in source scan.

%global systemctl_bin /usr/bin/systemctl
%global _hardened_build 1

Summary: The client for the Trivial File Transfer Protocol (TFTP)
Name: tftp
Version: 5.2
Release: 24%{?dist}
License: BSD
Group: Applications/Internet
URL: http://www.kernel.org/pub/software/network/tftp/
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa/tftp-hpa-%{version}.tar.bz2
Source1: tftp.socket
Source2: tftp.service

Patch0: tftp-0.40-remap.patch
Patch2: tftp-hpa-0.39-tzfix.patch
Patch3: tftp-0.42-tftpboot.patch
Patch4: tftp-0.49-chk_retcodes.patch
Patch5: tftp-hpa-0.49-fortify-strcpy-crash.patch
Patch6: tftp-0.49-cmd_arg.patch
Patch7: tftp-hpa-0.49-stats.patch
Patch8: tftp-hpa-5.2-pktinfo.patch
Patch9: tftp-doc.patch
Patch10: tftp-enhanced-logging.patch

BuildRequires: readline-devel autoconf systemd-units

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP)
Requires: systemd-units
Requires(post): systemd-units
Requires(postun): systemd-units

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run by using
systemd socket activation, and is disabled by default.

%prep
%setup -q -n tftp-hpa-%{version}
%patch0 -p1 -b .zero
%patch2 -p1 -b .tzfix
%patch3 -p1 -b .tftpboot
%patch4 -p1 -b .chk_retcodes
%patch5 -p1 -b .fortify-strcpy-crash
%patch6 -p1 -b .cmd_arg
%patch7 -p1 -b .stats
%patch8 -p1 -b .pktinfo
%patch9 -p1 -b .doc
%patch10 -p1 -b .logging

%build
autoreconf
%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
mkdir -p ${RPM_BUILD_ROOT}%{_localstatedir}/lib/tftpboot
mkdir -p ${RPM_BUILD_ROOT}%{_unitdir}

make INSTALLROOT=${RPM_BUILD_ROOT} SBINDIR=%{_sbindir} MANDIR=%{_mandir}
INSTALL='install -p' install

install -p -m 644 %SOURCE1 ${RPM_BUILD_ROOT}%{_unitdir}
install -p -m 644 %SOURCE2 ${RPM_BUILD_ROOT}%{_unitdir}

%post server
%systemd_post tftp.socket

%preun server
%systemd_preun tftp.socket

%postun server
%systemd_postun_with_restart tftp.socket

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%doc README README.security CHANGES
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%doc README README.security CHANGES
%dir %{_localstatedir}/lib/tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
%{_unitdir}/*

%changelog
* Fri Feb 09 2018 Igor Gnatenko <ignatenkobrain@fedoraproject.org> - 5.2-24
  - Escape macros in %changelog

* Mon Dec 4 2017 Jan Synak <jsynacek@redhat.com> - 5.2-23
  - remove build dependency on tcp_wrappers (#1518793)
* Thu Aug 03 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-22
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Binutils_Mass_Rebuild

* Thu Jul 27 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-21
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Sat Feb 11 2017 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-20
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Thu Jan 12 2017 Igor Gnatenko <ignatenko@redhat.com> - 5.2-19
  - Rebuilt for readline 7.x

* Thu Mar 3 2016 Jan Synek <jsynacek@redhat.com> - 5.2-18
  - enhance in.tftpd logging capabilities

* Fri Feb 05 2016 Fedora Release Engineering <releng@fedoraproject.org> - 5.2-17
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Fri Jun 19 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-16
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Mon Aug 18 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-15
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sun Jun 08 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-14
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Mon Feb 24 2014 Jan Synek <jsynacek@redhat.com> - 5.2-13
  - add documentation reference to the service file

* Wed Feb 19 2014 Jan Synek <jsynacek@redhat.com> - 5.2-12
  - start socket as well when starting the service

* Thu Feb 13 2014 Jan Synek <jsynacek@redhat.com> - 5.2-11
  - don't depend on xinetd anymore (#1059641)

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Tue Apr 23 2013 Jan Synek <jsynacek@redhat.com> - 5.2-9
  - harden the package (#955197)

* Fri Apr 19 2013 Jan Synek <jsynacek@redhat.com> - 5.2-8
  - documentation fixes

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild
* Wed Aug 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-6
  - add systemd-rpm macros
  - Resolves: #850338

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 5.2-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jul 19 2012 Jan Synek <jsynacek@redhat.com> - 5.2.4
  - make fedora-review-friendly

* Wed Jul 18 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - update spec: fix Source0

* Wed May 30 2012 Jan Synek <jsynacek@redhat.com> - 5.2-4
  - use systemd instead of xinetd as a default

* Tue May 22 2012 Jan Synek <jsynacek@redhat.com> - 5.2-3
  - provide native systemd service files
  - Resolves: #737212

* Wed Jan 04 2012 Jiri Skala <jskala@redhat.com> - 5.2-2
  - fixes #739534 - TFTP to an IP alias of FC15 tftp server failed

* Wed Dec 14 2011 Jiri Skala <jskala@redhat.com> - 5.2-1
  - updated to latest upstream - 5.2

* Thu Oct 06 2011 Jiri Skala <jskala@redhat.com> - 5.1-1
  - updated to latest upstream - 5.1

* Mon Jun 20 2011 Jiri Skala <jskala@redhat.com> - 0.49-9
  - fixes #714261 - CVE-2011-2199: buffer overflow when setting utimeout option

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Jiri Skala <jskala@redhat.com> - 0.49-7
  - fixes #666746 - Packaging mistake: confusing %%%doc files patched+unpatched
  - fixes printing statistics using -v option

* Fri May 28 2010 Jiri Skala <jskala@redhat.com> - 0.49-6
  - patched handling arguments of commands (put)

* Wed Aug 05 2009 Warren Togami <wtogami@redhat.com> - 0.49-5
  - Bug #515361 tftp FORTIFY_SOURCE strepy crash

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild
* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.49-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Thu Jan 15 2009 Jiri Skala <jskala@redhat.com> - 0.49-2
  - #473487 - unchecked return values

* Tue Nov 25 2008 Tom "spot" Callaway <tcallawa@redhat.com> - 0.49-1
  - update to 0.49

* Wed May 21 2008 Warren Togami <wtogami@redhat.com> - 0.48-6
  - undo symlink stuff completely because they are problematic
    See Bug #447135 for details.

* Wed May 21 2008 Martin Nagy <mnagy@redhat.com> - 0.48-5
  - fix troubles caused by added symlink

* Tue May 20 2008 Martin Nagy <mnagy@redhat.com> - 0.48-4
  - add symlink to /var/lib/tftpboot

* Mon Mar 03 2008 Martin Nagy <mnagy@redhat.com> - 0.48-3
  - changed description (#234099)

* Mon Feb 11 2008 Martin Nagy <mnagy@redhat.com> - 0.48-2
  - rebuild for gcc-4.3

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.48-1
  - upgrade to 0.48
  - remove the old sigjmp patch (fixed in upstream)
  - make some changes in spec file (#226489)

* Tue Jan 22 2008 Martin Nagy <mnagy@redhat.com> - 0.42-6
  - changed the location of tftpboot directory to /var/lib/

* Fri Aug 31 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-5
  - rebuild

* Mon Feb 19 2007 Maros Barabas <mbarabas@redhat.com> - 0.42-4
  - make some changes in spec file (review)
  - Resolves #226489

* Mon Dec 04 2006 Maros Barabas <mbarabas@redhat.com> - 0.42-3.2
  - change BuildRequires from tcp_wrappers to tcp_wrappers-devel

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.42-3.1
  - rebuild

* Mon Apr 10 2006 Radek Vokl <rvokal@redhat.com> 0.42-3
- show localtime instead of GMT (#172274)

* Wed Mar 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-2
  - fix double free error when hitting ^C (#186201)

* Wed Feb 22 2006 Radek Vokl <rvokal@redhat.com> 0.42-1
  - upgrade to 0.42

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2.1
  - bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.41-1.2
  - rebuilt for new gcc4.1 snapshot and glibc changes

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Thu Nov 03 2005 Radek Vokal <rvokal@redhat.com> 0.41-1
  - upstream update (patterns fixes)

* Tue Apr 19 2005 Radek Vokal <rvokal@redhat.com> 0.40-6
  - fix remap rules convert error <pjones@redhat.com>

* Wed Mar 23 2005 Radek Vokal <rvokal@redhat.com> 0.40-5
  - use tftp-xinetd from tarball (#143589)

* Fri Mar 04 2005 Radek Vokal <rvokal@redhat.com> 0.40-4
  - gcc4 rebuilt

* Sun Feb 27 2005 Florian La Roche <laroche@redhat.com>
  - Copyright: -> License

* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.40-2
  - Rebuilt for new readline.

* Mon Nov 15 2004 Radek Vokal <rvokal@redhat.com> 0.40-1
  - Update to new upstream version, fixes #139328

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.39-1
  - Update to new version makes tftp work, says upstream.
  - Remove malta patch

* Mon Sep 13 2004 Elliot Lee <sopwith@redhat.com> 0.38-1
  - Update to new version fixes #131736

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt
* Thu Jun 03 2004 Elliot Lee <sopwith@redhat.com> 0.36-1
  - Update version

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for ".-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody
* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr  7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
  - build root
* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1278591057_1645928005.09/0/tftp-5.2-24.el8-1.src.rpm-cosi-expand-archive-2PfxSASN/tftp.spec

1.1500 usermode 1.113-1.el8

1.1500.1 Available under license:

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tomb - support for clean goroutine termination in Go.

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1.1504 ip-address 2.0.2

1.1505 libnfnetlink 1.0.1 13.el8

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1.1506 webrick 1.6.1

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

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

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

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

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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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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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registry/* .jar /tmp/jars/
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1522 krb5-libs 1.17-18.el8

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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/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

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

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1.1534 perl-constant 1.33-396.el8

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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS
use constant PI  => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...
if DEBUG;

use constant {
    SEC  => 0,
    MIN  => 1,
    HOUR => 2,
    MDAY => 3,
    MON  => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);;

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ".\n";

=head1 DESCRIPTION
This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits
of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo)>
{ use constant ... |>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

    print "Pi equals PI...
";  # WRONG: does not expand "PI"
    print "Pi equals ".PI."...
";  # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some
poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

use constant TIMESTAMP => localtime;    # WRONG!
use constant TIMESTAMP => scalar localtime;   # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

my @workdays = WEEKDAYS[1 .. 5];        # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];      # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",  # Error!
};

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other
constants defined in the same declaration. This is because the
calling package doesn’t know about any constant within that group
until I<after> the C<use> statement is finished.

use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK, # Error!
}

=head2 Magic constants

Magical values and references can be made into constants at compile
time, allowing for way cool stuff like this. (These error numbers
aren't totally portable, alas.)

use constant E2BIG => ($! = 7);
print E2BIG, "\n"; # something like "Arg list too long"
print 0+E2BIG, "\n"; # "7"

You can't produce a tied constant by giving a tied scalar as the
value. References to tied variables, however, can be used as
constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually
inlinable subroutines. As of version 5.004 of Perl, the appropriate
scalar constant is inserted directly in place of some subroutine
calls, thereby saving the overhead of a subroutine call. See
L<perlsub/Constant Functions/> for details about how and when this
happens.

In the rare case in which you need to discover at run time whether a
particular constant has been declared via this module, you may use
this function to examine the hash C<%constant::declared>. If the given
constant name does not include a package name, the current package is
used.

sub declared ($) {
    use constant 1.01; # don't omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}

=head1 CAVEATS
In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< => >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen,
This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by Sébastien Aperghis-Tramoni.

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=cut

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* /opt/cola/permits/1175309845_1624358431.41/0/perl-constant-1.33-396.el8-1.src.rpm-cosi-expand-archive-PH9CfT4t/constant-1.27.tar.gz-cosi-expand-archive-RMiAR9ej/constant-1.27/lib/constant.pm
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---
abstract:    'Perl pragma to declare constants'
author:
  - 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
built_requires:  
  Test::More: 0
configure_requires: 
  Module::Build: 0.2808
dynamic_config: 1
generated_by:  'Module::Build version 0.4003, 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: constant
provides: 
  constant:
    file: lib/constant.pm
    version: 1.27
resources: 
  license: http://dev.perl.org/licenses/
version: 1.27

Found in path(s):
* /opt/cola/permits/1175309845_1624358431.41/0/perl-constant-1.33-396.el8-1.src.rpm-cosi-expand-archive-PH9CfT4t/constant-1.27.tar.gz-cosi-expand-archive-RM1aR9ej/constant-1.27/META.yml

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

Alternatively, to install with Module::Build, you can use the following commands:

perl Build.PL
./Build
./Build test
./Build install

SUPPORT AND DOCUMENTATION

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

perldoc constant

You can also look for information at:
Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

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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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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java

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jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
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jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedNotification.java
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jar/org/springframework/context/annotation/ComponentScans.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/context/PayloadApplicationEvent.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/format/number/PercentStyleFormatter.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-
jar/org/springframework/remoting/RemoteTimeoutException.java
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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/o/spring-context-5-2-8-release-sources.jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/o/spring-context-5-2-8-release-sources.jar/org/springframework/context/SmartLifecycle.java
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  jar/org/springframework/mx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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  jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
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*/
/**
 * Indicates that a component is only eligible for registration when all
 * {_LITERAL #value specified conditions} match.
 *
 * &lt;p&gt;A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programatically
 * before the bean definition is due to be registered (see {link Condition} for details).
 *
 * &lt;p&gt;The {code @Conditional} annotation may be used in any of the following ways:
 * &lt;ul&gt;
 * &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
 * {code @Component}, including {link Configuration @Configuration} classes&lt;/li&gt;
 * &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype
 * annotations&lt;/li&gt;
 * &lt;li&gt;as a method-level annotation on any {link Bean @Bean} method&lt;/li&gt;
 * &lt;/ul&gt;
 *
 * &lt;p&gt;If a {code @Configuration} class is marked with {code @Conditional},
 * all of the {code @Bean} methods, {link Import @Import} annotations, and
 * {link ComponentScan @ComponentScan} annotations associated with that
 * class will be subject to the conditions.
 *
 * &lt;p&gt;&lt;strong&gt;NOTE&lt;/strong&gt;: Inheritance of {code @Conditional} annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * {code @Conditional} itself is not declared as
 * {link java.lang.annotation.Inherited @Inherited}; furthermore, any
 * custom &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
 * {code @Conditional} must not be declared as {code @Inherited}.
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java

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 */

/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/context/i18n/SimpleLocaleContext.java

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@link AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
* <p>Exposes the {@code MBeanServer} for bean references.
* <p>This (@link FactoryBean) is a direct alternative to (@link MBeanServerFactoryBean),
* which uses standard JMX 1.2 API to access the platform's (@link MBeanServer).
* <p>See the javadocs for WebSphere's
* and
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/ui/ModelExtensions.kt
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/ui/ModelMapExtensions.kt

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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/jndi/JndiLocatorDelegate.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/format/Printer.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /opt/ws_local/PERMITS_SQL/1074764531_1595944129.19/0/spring-context-5-2-8-release-sources.jar/org/springframework/formatter/date/standard/StandardDateFormatter.java
1.1542 at-spi2-core 2.28.0-1.el8

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (douglas@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssdc.ssd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.1544 microsoft-netcore-app-runtime-osx-x64 7.1.0-rc.2

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Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards
23 February 2007

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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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<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
  </PropertyGroup>
</Project>
<ApplicationManifest>App.manifest</ApplicationManifest>

<!-- ilasm round-trip testing blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/runtime/issues/11412 -->

<IlasmRoundTripIncompatible>true</IlasmRoundTripIncompatible>

<!-- Test unsupported outside of windows -->

<CLRTestTargetUnsupported Condition="$(TargetsWindows) != 'true'">true</CLRTestTargetUnsupported>

<!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->

<UnloadabilityIncompatible>true</UnloadabilityIncompatible>

</PropertyGroup>

<ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
    <Compile Include="../../ServerContracts/Server.Contracts.cs" />
    <Compile Include="../../ServerContracts/ServerGuids.cs" />
  </ItemGroup>
</ItemGroup>

<ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>

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

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tomb - support for clean goroutine termination in Go.

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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TEST-bundler-1.16.1

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Refactored SqlBuilder class (SQL, AbstractSQL)

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Version 2, June 1991
Preamble

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>

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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
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You should also get your employer (if you work as a programmer) or your
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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* /opt/cola/permits/1110946370_1606872810.37/0/smack-core-4-1-9-sources-1-jar/org/jivesoftware/smack/compression/XMPPInputStream.java

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  jar/org/jivesoftware/smack/provider/IntrospectionProvider.java
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  jar/org/jivesoftware/smack/packet/UnparsedIQ.java
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* /opt/cola/permits/1110946370_160687810.37/0/smack-core-4-1-9-sources-1-
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  jar/org/jivesoftware/smack/util/DNSUtil.java
* /opt/cola/permits/1110946370_160687810.37/0/smack-core-4-1-9-sources-1-
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* /opt/cola/permits/1110946370_1606872810.37/0/smack-core-4-1-9-sources-1-
  jar/org/jivesoftware/smack/util/stringencoder/StringEncoder.java
* /opt/cola/permits/1110946370_1606872810.37/0/smack-core-4-1-9-sources-1-
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  jar/org/jivesoftware/smack/util/SmackExecutorThreadFactory.java
* /opt/cola/permits/1110946370_1606872810.37/0/smack-core-4-1-9-sources-1-
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1.1589 bean-validation-api 2.0.1.Final

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  jar/javax/validation/ElementKind.java
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content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip, deflate
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}
},
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},
"analytics": {
"tags": ["Facet-Only"]
}
}

HTTP/1.1 200 OK
date: Thu, 27 Sep 2018 21:19:12 GMT
content-type: application/json; charset=utf-8
transfer-encoding: chunked
connection: close
vary: Accept-Encoding, Origin
status: 200 OK
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block
x-content-type-options: nosniff
etag: W/"18ee65079f161780b7d9ce13afee0128"
cache-control: max-age=0, private, must-revalidate
x-request-id: 0dbfcb3f3379f524c0cb5530c9e9bc16
x-runtime: 0.130653
x-swiftype-frontend-datacenter: dal05
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{"meta": {"warnings": [], "page": {"current": 1, "total_pages": 33, "total_results": 33, "size": 1}, "request_id": "0dbfcb3f337..."}
POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-hean6g8dmxnm2shqiqag757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip, deflate
body: {"query":"cat","page":{"size":1},"filters":{},"facets":{"license":{{"type":"value","value":null,"size":3}}}}

HTTP/1.1 200 OK
date: Thu, 27 Sep 2018 20:36:08 GMT
content-type: application/json; charset=utf-8
transfer-encoding: chunked
connection: close
vary: Accept-Encoding, Origin
status: 200 OK
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block
x-content-type-options: nosniff
etag: W/"d31aa22a68122c8392577cf4a1a7f11"

POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-hean6g8dmxnm2shqiqag757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip, deflate
body: {"query":"cat","page":{"size":0},"filters":{},"facets":{"license":{{"type":"value","value":null,"size":3}}},"analytics":{"tags":null}}

HTTP/1.1 200 OK
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
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**
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  jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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  jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
  jar/org/apache/xerces/impl/dv/xs/TimeDV.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/xpath/XPath.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/dv/xx/DateTimeDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/dv/xx/DateDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/dv/xx/MonthDV.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/dv/xx/DayDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/dv/xx/YearMonthDV.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
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jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
jar/org/apache/xerces/jaxp/validation/STAXValidatorHelper.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
jar/org/apache/xerces/impl/dv/impl/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xx/XSParticleDecl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xx/TreeWalkerImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/DOMImplementationImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xs/TreeWalkerImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xx/TreeWalkerImpl.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xs/TreeWalkerImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/xx/TreeWalkerImpl.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/dom/DOMErrorImpl.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/wml/WMLPostfieldElement.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xmlserialize/Encodings.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/xercesimpl/dtd/XML11DTDValidator.java
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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-jar/org/apache/wml/dom/WMLPrevElementImpl.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/wml/WMLMetaElement.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xml/serialize/SerializerFactory.java

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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/xx/XSTerm.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/implementations/dtd/models/CMStateSet.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/implementations/io/InvalidByteSequenceException.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/xs/CMModel.java
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* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2.jar/org/apache/wml/WMLDoElement.java
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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in asynchronous
 *   mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>LSParser</code>. Note that no lexical checking
 *   is done on the absolute URI. In order to create a
 *   <code>LSParser</code> for any kind of schema types (i.e. the
 *   LSParser will be free to use any schema found), use the value
 *   <code>null</code>.
 * @return  The newly created <code>LSParser</code> object. This
 *   <code>LSParser</code> is either synchronous or asynchronous
 *   depending on the value of the <code>mode</code> argument.
 * @exception DOMException
 *   NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
 *   not supported.
 */

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* /opt/cola/permits/1110637609_1606872750.0/0/xercesimpl-2-12-0-sources-2-
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1.1593 effective-tld-names 2.62.3-1

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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/jcp/xml/dsig/internal/dom/DOMCanonicalizationMethod.java
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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/xml/crypto/dsig/keyinfo/KeyInfoFactory.java
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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/utils/IdResolver.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/DocumentSerializer.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/keys/keyresolver/ implementations/X509SKIResolver.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/AgreementMethod.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/ResourceResolverException.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/transfers/transformations/TransformC14NExclusive.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/AbstractSerializer.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/algorithms/implementations/IntegrityHmac.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/keys/storage/StorageResolverSpi.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/c14n/implementations/NameSpaceSymbTable.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/signature/SignatureProperties.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/EncryptedKey.java
  * /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/Reference.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/transfers/Transform.java
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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/utils/ll8n.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/exceptions/XMLSecurityException.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/transfers/transformations/TransformC14N11_WithComments.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/signature/ObjectContainer.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/exceptions/Base64DecodingException.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/signature/XMLSignatureException.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/encryption/CipherReference.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/utils/RemoteSha1Signature.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/utils/resolver/implementations/ResolverXPointer.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/keys/keyresolver/keyresolver/KeyResolverSpi.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/keys/storage/StorageResolver.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/keys/content/x509/XMLX509CRL.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/c14n/implementations/Canonicalizer11_OmitComments.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/xml/security/signature/SignedInfo.java

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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/org/apache/jcp/xml/dsig/internal/dom/DOMXPathFilter2Transform.java

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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-jar/java/xml/crypto/package.html
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* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-
  jar/org/apache/jcp/xml/dsig/internal/dom/DOMReference.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-
  jar/java/xml/crypto/dsig/XMLObject.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-
  jar/java/xml/crypto/URIDereferencer.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-
  jar/java/xml/crypto/dsig/XMLSignature.java
* /opt/cola/permits/1055015865_1626152128.2/0/xmlsec-1-5-2-sources-1-
  jar/org/apache/jcp/xml/dsig/internal/dom/DOMRetrievalMethod.java

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more than your reasonable cost of physically performing this
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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
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d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
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clear directions next to the object code saying where to find the
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1.1614 python3-perf 4.18.0-193.el8

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1.1618 io-console 0.5.9

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jar/org/springframework/beans/factory/DisposableBean.java
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/* /opt/ws_local/PERMITS_SQL/1074764502_1595944169.29/0/spring-beans-5-2-8-release-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java */

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/package-info.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
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  jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
  jar/netty_epoll_linuxsocket.h

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*/
/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the [@code TCP_QUICKACK] option on the socket. See <a
 * href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
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1.1628 webencodings 0.5.1

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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)
webencodings.mklabels

Regenerate the webencodings.labels module.
"""
webencodings.labels
~~~~~~~~~~~~~~~~~~~
Map encoding labels to their name.

"""

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
                for label in encoding['labels']
        max_len = max(len(label) for label, name in labels)
        parts.extend(
            %s%s %%s,%%s,%%s\n            % (label, \%s (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
python-webencodings

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

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

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

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

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

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
1.1629 go-kit-log 0.1.0

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1.1630 gdbm-libs 1.18-1.el8

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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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1.1632 logstash-output-graphite 3.1.6
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1.1633 logstash-input-graphite 3.0.6
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1.1634 chkconfig 1.11-1.el8

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tools/antRun.bat
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Protocol Buffers for Go with Gadgets

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

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tomb - support for clean goroutine termination in Go.

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
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# Jackson JSON processor

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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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
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of these things:

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

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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.

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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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tomb - support for clean goroutine termination in Go.

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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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 */
/**
 * Constructs a new [ClassNode](#ClassNode). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/MethodVisitor.java

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Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/tree/ClassNode.java

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/**
* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
* version.
*  
* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.  
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* &lt;tt>null&lt;/tt&gt; if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
the local variable's index in each range. This array must have
the same size as the 'start' array.
@param desc
the class descriptor of the annotation class.
/

Found in path(s):
/opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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jar/org/objectweb/asm/TypeReference.java
/opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/TypePath.java
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*/
/**
 * Creates a new @{AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @{AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see @{Opcodes}).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see @{Type}).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [ @link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see {@link Type}).
* @param signature
*     the method's signature. May be <tt>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     {@link Type#getInternalName() getInternalName}). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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jar/org/objectweb/asm/xml/package.html

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-resize.properties

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/**
 * Creates a new [ @link GeneratorAdapter ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String) ].
 * @param mv
 * @param access
 * @param name
 * @param desc
 * @throws IllegalStateException
 * @param mv
 *    the method visitor to which this adapter delegates calls.
 * @param access
 *    the method's access flags (see [ @link Opcodes ]).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [ @link Type Type ]).
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

Found in path(s):
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  jar/org/objectweb/asm/commons/GeneratorAdapter.java
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jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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1.1667 json-smart 2.4.2

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Manifest-Version: 1.0
Bnd-LastModified: 1617553143521
Build-Jdk: 11.0.9.1
Built-By: uriel
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.
Bundle-DocURL: https://urielch.github.io/
1.1668 openssl-pkcs11 0.4.10-2.el8

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  jar/com/google/common/collection/GenericMapMaker.java
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  jar/com/google/common/base/FunctionalEquivalence.java
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/*
 /* This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 */

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/TreeRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Queues.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingOutputStream.java
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jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeTraverser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedMultisetBridge.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/Constraints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/NullsLastOrdering.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Throwables.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/InputSupplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/SortedSetMultimap.java

* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/OutputSupplier.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Objects.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/MapConstraints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/package-info.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/CompoundOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/AbstractMapEntry.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ConcurrentHashMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/LinkedListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/TreeMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/eventbus/Subscribe.java
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  jar/com/google/common/collection/ContiguousSet.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Preconditions.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/HashingInputStream.java
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jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FutureFallback.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FutureCallback.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalListeners.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LoadingCache.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ImmutableMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ImmutableSortedSet.java
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jar/com/google/common/util/concurrent/InterruptibleTask.java
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File: PSReadLine
https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1681 adduser 3.118ubuntu2

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1.1683 vim 8.1.2269-1ubuntu5.7

1.1684 spring-modules-validation 0.8

1.1685 xmlrpc-c 1.51.0 5.el8

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 2, June 1991

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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
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libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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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Some devices are designed to deny users access to install or run
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protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
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have designed this version of the GPL to prohibit the practice for those
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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
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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1337322023_1654191402.960821/0/netty-codec-4-1-66-final-sources-2-
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/**
* A decoder that splits the received [link ByteBuf]s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*<h3>2 bytes length field at offset 0, do not strip header</h3>
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
*<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*<h3>2 bytes length field at offset 0, strip header</h3>
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
*<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*<h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * `<tt>lengthAdjustment</tt>`. Because the length value in this example message
  * is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
  * as `<tt>lengthAdjustment</tt>` for compensation.
  * <pre>
  * `lengthFieldOffset   = 0`
  * `lengthFieldLength   = 2`
  * `<b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
  * `initialBytesToStrip = 0`
  *
  * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+
  * </pre>
  *
  * The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
  * again because the decoder always takes the length of the prepended data into
  * account during frame length calculation.
  * <pre>
  * `<b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
  * `<b>lengthFieldLength</b> = <b>3</b>`
  * `lengthAdjustment    = 0`
  * `initialBytesToStrip = 0`
  *
  * BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  * +----------+----------+----------------+      +----------+----------+----------------+
  * | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
  * | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  * +----------+----------+----------------+      +----------+----------+----------------+
  * </pre>
  *
  * This is an advanced example that shows the case where there is an extra
  * header between the length field and the message body. You have to specify a
  * positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
  * header into the frame length calculation.
  * <pre>
  * `lengthFieldOffset   = 0`
  * `lengthFieldLength   = 3`
* `<b>lengthAdjustment</b>` = `<b>2</b>` (= the length of Header 1)
* `initialBytesToStrip = 0`

* **BEFORE DECODE (17 bytes)**
  * +----------+----------+----------------+
  * |  Length  | Header 1 | Actual Content |
  * | 0x00000C  | 0xCAFE   | "HELLO, WORLD" |
  * +----------+----------+----------------+

* **AFTER DECODE (17 bytes)**
  * +----------+----------+----------------+
  * |  Length  | Header 1 | Actual Content |
  * | 0x00000C  | 0xCAFE   | "HELLO, WORLD" |
  * +----------+----------+----------------+

* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

* `<pre>`
  * `lengthFieldOffset  = 1 (= the length of HDR1)`
  * `lengthFieldLength  = 2`
  * `<b>lengthAdjustment</b>` = `<b>1</b>` (= the length of HDR2)
  * `<b>initialBytesToStrip</b>` = `<b>3</b>` (= the length of HDR1 + LEN)

* **BEFORE DECODE (16 bytes)**
  * +------|--------|------|----------------+
  * | HDR1 | Length | HDR2 | Actual Content |
  * | 0xCA  | 0x000C | 0xFE | "HELLO, WORLD" |
  * +------|--------|------|----------------+

* **AFTER DECODE (13 bytes)**
  * +------|--------|------|----------------+
  * | HDR2 | Actual Content |
  * | 0xFE | "HELLO, WORLD" |
  * +------|--------|------|----------------+

* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

* `<pre>`
  * `lengthFieldOffset  = 1`
  * `lengthFieldLength  = 2`
  * `<b>lengthAdjustment</b>` = `<b>-3</b>` (= the length of HDR1 + LEN, negative)
  * `<b>initialBytesToStrip</b>` = `<b>3</b>`
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
  * +--------------------+-------------------+
  * | HDR1 | Length | HDR2 | Actual Content |------| HDR2 | Actual Content |
  * | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +--------------------+-------------------+
  * </pre>
  *
  * @see LengthFieldPrepender
  */

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  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* Utility class for { @link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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1.1703 libogg 1.3.4

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1.1704 json-c 0.99.8-2.el8
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* /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp-0.17.tar.gz-cosi-expand-archive-Sw4l6Azr/netkit-ftp-0.17/ftp/ruserpass.c

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* /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp-0.17/ftp/main.c

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diff -uNr netkit-ftp-0.17/CVS/Entries netkit-ftp/CVS/Entries
diff -uNr netkit-ftp-0.17/ChangeLog netkit-ftp/ChangeLog
--- netkit-ftp-0.17/ChangeLog	Sun Jul 23 04:38:08 2000
+++ netkit-ftp/ChangeLog	Tue Nov 28 03:50:10 2000
@@ -1,3 +1,6 @@
+28-Nov-2000:
+IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+
8-Jul-2000:
Fix misused printf-function call (not %n-exploitable though).

diff -uNr netkit-ftp-0.17/configure netkit-ftp/configure
--- netkit-ftp-0.17/configureSat Jul 29 21:00:28 2000
+++ netkit-ftp/configureSat Jan 27 06:14:54 2001
@@ -24,6 +24,7 @@
--manmode=mode        Mode for manual pages [644]
--with-c-compiler=cc  Program for compiling C source [guessed]
+ --enable-ipv6        Enable IPv6 support
EOF
exit 0;;
--verbose) ;;
@@ -39,6 +40,11 @@
--manmode=*) MANMODE=`echo $1 | sed 's/[^=]*=//r'` ;;
--with-c-compiler=*) CC=`echo $1 | sed 's/[^=]*=//r'`

--without-readline|--disable-readline) WITHOUT_READLINE=1;;
+
+---disable-ipv6) ENABLE_IPV6=no;;
+---enable-ipv6=*) ENABLE_IPV6=`echo $1 | sed /^[^=]*=//`;;
+---enable-ipv6) ENABLE_IPV6=yes;;
+
*) echo "Unrecognized option: $1"; exit 1;;
esac
shift
@@ -142,6 +148,42 @@
LDFLAGS=
LIBS=
+
+rm -f __conftest*
+
+##################################################
+## Enable IPv6
+echo -n "Whether to enable IPv6 support... "
+if [ x"ENABLE_IPV6" = x"yes" ]; then
+    echo yes
+    CFLAGS="$CFLAGS -DINET6"
+else
+    echo no
+fi
+
+rm -f __conftest*
+
+## Search IPv6 Library / Headers
+if [ x"ENABLE_IPV6" = x"yes" ]; then
+    echo -n "Search for IPv6 library... "
+    inet6libdirs="/usr/local/v6/lib /usr/local/lib /usr /usr/inet6/lib"
+    inet6libs="inet6"
+    inet6found=no
+    for inet6libdir in $inet6libdirs; do
+        for inet6lib in $inet6libs; do
+            if [ -d $inet6libdir ] && [ -f $inet6libdir/lib$inet6lib.a ]; then
+                inet6found=yes
+                break 2
+            fi
+        done
+    done
+    if [ x"inet6found" = x"yes" ]; then
+        echo "$inet6libdir/lib$inet6lib.a"
+        LIBS="$LIBS -L$inet6libdir -l$inet6lib"
+    else
+        echo "not found"
+fi
rm -f __conftest

diff -uNr netkit-ftp-0.17/ftp/CVS/Entries netkit-ftp/ftp/CVS/Entries
--- netkit-ftp-0.17/ftp/CVS/Entries Thu Jan 1 02:00:00 1970
+++ netkit-ftp/ftp/CVS/Entries Mon Feb 19 06:50:49 2001
@@ -0,0 +1,16 @@
+/.cvsignore/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/Makefile/1.4/Sat Jan 27 05:57:08 2001/
+/cmds.c/1.3/Fri Jan 12 21:36:27 2001/
+/cmds.h/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/domacro.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ftp.1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ftp.c/1.11/Sun Feb 11 12:26:59 2001/
+/ftp_var.h/1.3/Fri Jan 12 21:36:27 2001/
+/glob.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/glob.h/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/main.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/netrc.5/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/pathnames.h/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ruserpass.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+D

diff -uNr netkit-ftp-0.17/ftp/CVS/Repository netkit-ftp/ftp/CVS/Repository
--- netkit-ftp-0.17/ftp/CVS/Repository Thu Jan 1 02:00:00 1970
@@ -0,0 +1 @@
+usagi/src/netkit-ftp/ftp

diff -uNr netkit-ftp-0.17/ftp/CVS/Root netkit-ftp/ftp/CVS/Root
--- netkit-ftp-0.17/ftp/CVS/Root Thu Jan 1 02:00:00 1970
@@ -0,0 +1 @@
+pserver:anoncvs@anoncvs.linux-ipv6.org:/cvsroot/usagi

diff -uNr netkit-ftp-0.17/ftp/Makefile netkit-ftp/ftp/Makefile
--- netkit-ftp-0.17/ftp/Makefile Sat Aug 1 09:00:12 1999
+++ netkit-ftp/ftp/MakefileSat Jan 27 07:57:08 2001
@@ -16,10 +16,13 @@
cmds.o glob.o: glob.h

install: ftp
+install -d $(INSTALLROOT)/$(BINDIR)
install -s -m$(BINMODE) ftp $(INSTALLROOT)/$(BINDIR)
ln -sf ftp $(INSTALLROOT)/$(BINDIR)/pftp
+install -d $(INSTALLROOT)/$(MANDIR)/man1
install -m$(MANMODE) ftp.1 $(INSTALLROOT)/$(MANDIR)/man1
ln -sf ftp.1 $(INSTALLROOT)/$(MANDIR)/man1/pftp.1
+install -d $(INSTALLROOT)/$(MANDIR)/man5
install -m$(MANMODE) netrc.5 $(INSTALLROOT)$(MANDIR)/man5

clean:
diff -uNr netkit-ftp-0.17/ftp/cmds.c netkit-ftp/ftp/cmds.c
--- netkit-ftp-0.17/ftp/cmds.c Sun Jul 23 04:36:59 2000
+++ netkit-ftp/ftp/cmds.c Fri Jan 12 23:36:27 2001
@@ -1,3 +1,5 @@
+/* SUSAGI$ */
+/
/*
 * Copyright (c) 1985, 1989 Regents of the University of California.
 * All rights reserved.
 @@ -35,7 +37,7 @@
 * from: @(#)cmds.c 5.26 (Berkeley) 3/5/91
 */
char cmds_rcsid[] =
-   "$Id: cmds.c,v 1.33 2000/07/23 01:36:59 dholland Exp $";
+   "$Id: cmds.c,v 1.3 2001/01/12 21:36:27 sekiya Exp $";
/
/*
 * FTP User Program -- Command Routines.
 @@ -190,7 +192,7 @@
 setpeer(int argc, char *argv[])
 {
 char *host;
 -unsigned short port;
 +char *port;

 if (connected) {
 printf("Already connected to %s, use close first.\n",
 @@ -205,22 +207,17 @@
 code = -1;
 return;
 }
-port = ftp_port;
+port = NULL;
 if (argc > 2) {
-port = atoi(argv[2]);
-if (port < 1) {
-port = htons(port);
if (host) {
    int verbose;

    connected = 1;
    +try_epsv = 1;
    +try_eprt = 1;

    /*
    * Set up defaults for FTP.
    */
    diff -uNr netkit-ftp-0.17/ftp/cmdtab.c netkit-ftp/ftp/cmdtab.c
    --- netkit-ftp-0.17/ftp/cmdtab.c Tue Sep 28 18:36:05 1999
    @@ -35,7 +35,7 @@
    *
    * from: @(#)cmdtab.c 5.10 (Berkeley) 6/1/90
    */
    char cmdtab_rcsid[] =
    -  "$Id: cmdtab.c,v 1.8 1999/09/28 15:36:05 dholland Exp $";
    +  "$Id: cmdtab.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

    #include <string.h> /* for NULL */
    #include "ftp_var.h"
    diff -uNr netkit-ftp-0.17/ftp/domacro.c netkit-ftp/ftp/domacro.c
    --- netkit-ftp-0.17/ftp/domacro.c Thu Aug 15 02:27:28 1996
    @@ -35,7 +35,7 @@
    *
    * from: @(#)domacro.c 1.8 (Berkeley) 9/28/90
    */
    char domacro_rcsid[] =
    -  "$Id: domacro.c,v 1.4 1996/08/14 23:27:28 dholland Exp $";
    +  "$Id: domacro.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

    #include <errno.h>
    #include <ctype.h>
    diff -uNr netkit-ftp-0.17/ftp/ftp.1 netkit-ftp/ftp/ftp.1
    --- netkit-ftp-0.17/ftp/ftp.1 Mon Jul 31 02:56:59 2000
    @@ -30,7 +30,7 @@
    \" SUCH DAMAGE.
    \" 
    \"from: @(#)ftp.16.18 (Berkeley) 7/30/91
    +\"$Id: ftp.1,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $
    \"
    .Dd August 15, 1999
    .Dt FTP 1
    diff -uNr netkit-ftp-0.17/ftp/ftp.c netkit-ftp/ftp.c
/* $USAGI$ */
+
/*
 * Copyright (C) 1997 and 1998 WIDE Project.
 * All rights reserved.
 */
+
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 * modification, are permitted provided that the following conditions
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 */
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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
+
/ *
 * Copyright (c) 1985, 1989 Regents of the University of California.
 * All rights reserved.
 @ @ -35,7 +66,7 @@
 * From: @(#)/ftp.c5.38 (Berkeley) 4/22/91
 */
char ftp_rcsid[] =
- "$Id: ftp.c,v 1.25 1999/12/13 20:33:20 dholland Exp $";
+ "$Id: ftp.c,v 1.11 2001/02/11 12:26:59 yoshfuji Exp $";

#include <sys/param.h>
#include <sys/stat.h>
@ @ -63,14 +94,38 @@
#include "ftp_var.h"
#include "cmds.h"
+ifdef _USAGI
+include "version.h"
+else
#include "./version.h"
+endif
+
+union sockunion {
+struct socket {
+u_short si_family;
+u_short si_port;
+} su_si;
+struct sockaddr_su;
+#ifdef INET6
+struct sockaddr_in6 su_sin6;
+#endif
+}
+#definesu_family su_sa.sa_family
+#definesu_port su_si.si_port
+
+#ifdef INET6
+#define ex_af2prot(a) (a == AF_INET ? 1 : (a == AF_INET6 ? 2 : 0))
+#else
+#define ex_af2prot(a) (a == AF_INET ? 1 : 0)
+#endif
+
int data = -1;
off_t restart_point = 0;

#define recvabort
#define sendabort

static struct sockaddr_in hisctladdr;
static struct sockaddr_in data_addr;
static struct sockaddr_in myctladdr;
static int ptflag = 0;
static sigjmp_buf recvabort;
static sigjmp_buf sendabort;
static FILE *dataconn(const char *);
socklen_t len;
static char hostnamebuf[256];
-
+struct addrinfo hints, *res, *res0;
+char hbuf[MAXHOSTNAMELEN], pbuf[NL_MAXSERV];
+char *cause = "ftp: unknown";
+
+if (port) {
++strncpy(pbuf, port, sizeof(pbuf) - 1);
+pbuf[sizeof(pbuf) - 1] = \0;
+} else {
++sprintf(pbuf, "%d", ntohs(ftp_port));
++}
memset(&hisctladdr, 0, sizeof(hisctladdr));
-if (inet_aton(host, &hisctladdr.sin_addr)) {
--hisctladdr.sin_family = AF_INET;
-strcpy(hostnamebuf, host, sizeof(hostnamebuf));
-hostnamebuf[sizeof(hostnamebuf)-1]=0;
-}
-else {
--hp = gethostbyname(host);
-if (hp == NULL) {
--fprintf(stderr, "ftp: %s: ", host);
--herror((char *)NULL);
--code = -1;
--return((char *) 0);
++memset(&hints, 0, sizeof(hints));
++hints.ai_flags = AI_CANONNAME;
++hints.ai_socktype = SOCK_STREAM;
++error = getaddrinfo(host, pbuf, &hints, &res0);
++if (error) {
++if (port) {
++strcpy(hbuf, " ");
++} else {
++hbuf[0] = \0;
++pbuf[0] = \0;
++}
--hisctladdr.sin_family = hp->h_addrtype;
-if (hp->h_length > (int)sizeof(hisctladdr.sin_addr)) {
--hp->h_length = sizeof(hisctladdr.sin_addr);
--}
-memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0], hp->h_length);
-(void) strcpy(hostnamebuf, hp->h_name, sizeof(hostnamebuf));
-hostnamebuf[sizeof(hostnamebuf)-1] = 0;
-}
-hostname = hostnamebuf;
-s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
-if (s < 0) {
- perror("ftp: socket");
+ fprintf(stderr, "ftp: %s%s%s: %s
", host, hbuf, pbuf,
+ gai_strerror(error));
  code = -1;
  return (0);
}
-hisctladdr.sin_port = port;
-while (connect(s, (struct sockaddr *)&hisctladdr, sizeof (hisctladdr)) < 0) {
  if (hp && hp->h_addr_list[1]) {
    int oerrno = errno;
    -
    -fprintf(stderr, "ftp: connect to address %s: ",
    -inet_ntoa(hisctladdr.sin_addr));
    -errno = oerrno;
    - perror((char *) 0);
    -hp->h_addr_list++; =
    -memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0],
    - hp->h_length);
    -fprintf(stdout, "Trying %s...
",
    -inet_ntoa(hisctladdr.sin_addr));
    -(void) close(s);
    -s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
    -if (s < 0) {
      - perror("ftp: socket");
      -code = -1;
      -return (0);
      +
    +strncpy(hostnamebuf, res0->ai_canonname, sizeof(hostnamebuf));
    +struct addrinfo h, *a;
    +memset(&h, 0, sizeof(h));
    ++h.ai_family = PF_UNSPEC;
    ++h.ai_socktype = SOCK_STREAM;
    ++h.ai_flags = AI_NUMERICHOST;
    +if (!getaddrinfo(res0->ai_canonname, NULL, &h, &a)) {
      +strncpy(hostnamebuf, res0->ai_canonname, sizeof(hostnamebuf));
      +freeaddrinfo(a);
      +} else
      +strncpy(hostnamebuf, host, sizeof(hostnamebuf));
      +}
      +else
      +strncpy(hostnamebuf, host, sizeof(hostnamebuf));
      +hostnamebuf[sizeof(hostnamebuf) - 1] = '\0';
      +hostname = hostnamebuf;
      +
      +s = -1;
      +for (res = res0; res; res = res->ai_next) {
        +if (!ex_af2prot(res->ai_family)) {
          +cause = "ftp: mismatch address family";
        +}
+errno = EPROTONOSUPPORT;
+continue;
+
+if ((size_t)res->ai_addrlen > sizeof(hisctladdr)) {
+cause = "ftp: mismatch struct sockaddr size";
+errno = EPROTO;
+continue;
+
+if (getnameinfo(res->ai_addr, res->ai_addrlen,
+hbuf, sizeof(hbuf), NULL, 0,
+NI_NUMERICHOST))
+strcpy(hbuf, "???");
+if (res0->ai_next) /* if we have multiple possibilities */
+fprintf(stdout, "Trying %s...
", hbuf);
+s = socket(res->ai_family, res->ai_socktype, res->ai_protocol);
+if (s < 0) {
+cause = "ftp: socket";
+continue;
+}
+while ((error = connect(s, res->ai_addr, res->ai_addrlen)) < 0
+&& errno == EINTR) {
+;
+}
+if (error) {
+/* this "if" clause is to prevent print warning twice */
+if (res->ai_next) {
+fprintf(stderr,
+"ftp: connect to address %s", hbuf);
+perror(""");
+
+cause = "ftp: connect";
+close(s);
+s = -1;
+continue;

-perror("ftp: connect");
+/* finally we got one */
+break;
+}
+if (s < 0) {
+perror(cause);
+code = -1;
-goto bad;
+freeaddrinfo(res0);
+return NULL;
}
-len = sizeof (myctladdr);
memcpy(&hisctladdr, res->ai_addr, len);
freeaddrinfo(res0);
if (getsockname(s, (struct sockaddr *)&myctladdr, &len) < 0) {
perror("ftp: getsockname");
    code = -1;
goto bad;
}
#else
    code = 0;
#endif
#endif
if (getsockname(s, (struct sockaddr *)&myctladdr, &len) < 0) {
perror("ftp: getsockname");
    code = -1;
goto bad;
}
if (verbose)
    printf("Connected to %s (%s).
    if (getreply(0) > 2) { /* read startup message from server */
    if (cin)
        (void) fclose(cin);
    if (dig < 4 && isdigit(c))
        code = code * 10 + (c - '0');
        if (!pflag && code == 227)
            pflag = 1;
        else if (!pflag && (code == 227 || code == 228))
            pflag = 100;
        if (dig > 4 && pflag == 1 && isdigit(c))
            pflag = 2;
            if (pflag == 2) {
                /*
                +if (pflag == 100 && c == ')
                    pflag = 2;
                if (dig == 4 && c == ' - ') {
                    if (continuation)
                        code = 0;
                        @ @ -1083,15 +1182,25 @ @

    }
static int
initconn(void)
{
- register char *p, *a;
+ u_char *p, *a;
 int result, tmpno = 0;
 socklen_t len;
 int on = 1;
- int tos;
- u_long a1,a2,a3,a4,p1,p2;
 -
+ int tos, error = 0;
+ u_int ad[16], po[2], af, len, plen;
+ char *pasvcmd = NULL;
+ char hbuf[MAXHOSTNAMELEN], pbuf[NL_MAXSERV];
 +
+ #ifdef INET6
+ if (myctladdr.su_family == AF_INET6
+ && (IN6_IS_ADDR_LINKLOCAL(&myctladdr.su_sin6.sin6_addr)
+ || IN6_IS_ADDR_SITELOCAL(&myctladdr.su_sin6.sin6_addr)) {     
+ fprintf(stderr, "use of scoped address can be troublesome\n");
+ }
+ #endif
 if (passivemode) {
- data = socket(AF_INET, SOCK_STREAM, 0);
+ data_addr = hisctladdr;
+ data = socket(data_addr.su_family, SOCK_STREAM, 0);
 if (data < 0) {
 perror("ftp: socket");
 return(1);
@@ -1100,52 +1209,203 @@
 setsockopt(data, SOL_SOCKET, SO_DEBUG, (char *)&on,
                     sizeof (on)) < 0)
 perror("ftp: setsockopt (ignored)");
- if (command("PASV") != COMPLETE) {
+ switch (data_addr.su_family) {
+ case AF_INET:
+ #if 0
+ if (try_eepsv) {
+ result = command(pasvcmd = "EPSV 1");
+ if (code / 10 == 22 &&& code != 229) {
+ fprintf(stderr,
+ "wrong server: return code must be 229\n");
+ result = COMPLETE + 1;
+ }
+ #endif
+ result = COMPLETE + 1;
+if (result != COMPLETE) {
+try_epsv = 0;
+result = command(pasvcmd = "PASV");
+
+break;
+#ifdef INET6
+case AF_INET6:
+if (try_epsv) {
++result = command(pasvcmd = "EPSV 2");
++if (code / 10 == 22 && code != 229) {
++fprintf(stderr,
++  "wrong server: return code must be 229\n");
++result = COMPLETE + 1;
++}
++} else {
++result = COMPLETE + 1;
++}
++if (result != COMPLETE) {
++try_epsv = 0;
++result = command(pasvcmd = "LPSV");
++}
++break;
+#endif
+default:
+result = COMPLETE + 1;
+break;
+
++if (result != COMPLETE) {
++printf("Passive mode refused.\n");
+-return(1);
++goto bad;
+
+#define pack2(var) \
+((var[0] & 0xff) << 8) | ((var[1] & 0xff) << 0)
+#define pack4(var) \
+(((var)[0] & 0xff) << 24) | (((var)[1] & 0xff) << 16) | \
+ ((var)[2] & 0xff) << 8) | (((var)[3] & 0xff) << 0))
+
/*
 * What we've got at this point is a string of comma separated
 * one-byte unsigned integer values, separated by commas.
 * The first four are the an IP address. The fifth is the MSB
 * of the port number, the sixth is the LSB. From that we'll
 * prepare a sockaddr_in.
 */
-*
-if (sscanf(pasv,"%ld,%ld,%ld,%ld,%ld,%ld",
+&a1,&a2,&a3,&a4,&p1,&p2)
+!= 6)
+{
+printf("Passive mode address scan failure. Shouldn't happen!\n");
+return(1);
+error = 0;
+if (strncmp(pasvcmd, "PASV") == 0) {
+if (data_addr.su_family != AF_INET) {
+error = 2;
+goto psv_done;
+}
+if (code / 10 == 22 && code != 227) {
+error = 227;
+goto psv_done;
+}
+if (sscanf(pasv, "%u,%u,%u,%u,%u,%u",
+&af[0], &af[1], &af[2], &af[3],
+&pl[0], &pl[1]) != 9) {
+error = 1;
+goto psv_done;
+}
+if (strcmp(pasvcmd, "LPSV") == 0) {
+if (code / 10 == 22 && code != 228) {
+error = 228;
+goto psv_done;
+}
+switch (data_addr.su_family) {
+case AF_INET:
+if (sscanf(pasv, "%u,%u,%u,%u,%u,%u",
+&af, &alen,
+&ad[0], &ad[1], &ad[2], &ad[3],
+&pl, &pl[0], &pl[1]) != 9) {
+error = 1;
+goto psv_done;
+}
+if (af != 4 || alen != 4 || pl != 2) {
+error = 2;
+goto psv_done;
+}
+data_addr.su_sin.sin_addr.s_addr = htonl(pack4(ad));
+data_addr.su_port = htons(pack2(po));
+break;
+#ifdef INET6
+data_addr.su_sin.sin_addr.s_addr = htonl(pack4(ad));
+data_addr.su_port = htons(pack2(po));
+break;
+}
case AF_INET6:
    if (sscanf(pasv, "%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u", &af, &alen,
        &ad[0], &ad[1], &ad[2], &ad[3],
        &ad[4], &ad[5], &ad[6], &ad[7],
        &ad[8], &ad[9], &ad[10], &ad[11],
        &ad[12], &ad[13], &ad[14], &ad[15],
        &plen, &po[0], &po[1]) != 21) {
        error = 1;
        goto psv_done;
    }
    if (af != 6 || alen != 16 || plen != 2) {
        error = 2;
        goto psv_done;
    }
    data_addr.su_sin6.sin6_addr.s6_addr32[0] = htonl(pack4(ad));
    data_addr.su_sin6.sin6_addr.s6_addr32[1] = htonl(pack4(ad+4));
    data_addr.su_port = htons(pack2(po));
    break;
#endif
+default:
+error = 1;
+
} else if (strncmp(pasvcmd, "EPSV", 4) == 0) {
    char delim[4];
    u_int epsvpo;
    +
    if (code / 10 == 22 && code != 229) {
        error = 229;
        goto psv_done;
    }
    +if (code / 10 == 22 & & code != 229) {
        error = 229;
        goto psv_done;
    }
    +if (sscanf(pasv, "%c%c%c%u%c", &delim[0], &delim[1],
        &delim[2], &epsvpo, &delim[3]) != 5) {
        error = 1;
        goto psv_done;
    }
        + || delim[0] != delim[3]) {
        error = 1;
        goto psv_done;
    }
+data_addr.su_port = htons(epsvpo);
+} else {
+error = 1;
+
+} 
+psv_done:
++++switch (error) {
+case 0:
+break;
+case 1:
+fprintf(stderr, 
+ "Passive mode address scan failure. Shouldn't happen!\n"");
+goto bad;
+case 2:
+fprintf(stderr, 
+ "Passive mode AF mismatch. Shouldn't happen!\n"");
+goto bad;
+case 227:
+case 228:
+case 229:
+fprintf(stderr, 
+ "wrong server: return code must be %d\n", error);
+goto bad;
+default:
+fprintf(stderr, "Bug\n");
 }
-data_addr.sin_family = AF_INET;
-data_addr.sin_addr.s_addr = htonl((a1 << 24) | (a2 << 16) |
- (a3 << 8) | a4);
-data_addr.sin_port = htons((p1 << 8) | p2);
-
if (connect(data, (struct sockaddr *) &data_addr, 
- sizeof(data_addr))<0) {
+ (data_addr.su_family == AF_INET ?
+ sizeof(data_addr.su_sin) :
+ sizeof(data_addr.su_sin6)))<0) {
+ perror("ftp: connect");
+return(1);
}
#endif IP_TOS
+if (data_addr.su_family == AF_INET)
+{ 
tos = IPTOS_THROUGHPUT;
+if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&tos,
+ sizeof(tos)) < 0)
+ perror("ftp: setsockopt TOS (ignored)");
+
+} #endif
return(0);
}

noport:
data_addr = myctladdr;
if (sendport)
    -data_addr.sin_port = 0;/* let system pick one */
+data_addr.su_port = 0;/* let system pick one */
if (data != -1)
    (void) close(data);
-data = socket(AF_INET, SOCK_STREAM, 0);
+data = socket(data_addr.su_family, SOCK_STREAM, 0);
if (data < 0) {
perror("ftp: socket");
if (tmpno)
    @ @ -1172,13 +1432,47 @ @
if (listen(data, 1) < 0)
perror("ftp: listen");
if (sendport) {
    -a = (char *)&data_addr.sin_addr;
    -p = (char *)&data_addr.sin_port;
-#define	UC(b)	(((int)b)&0xff)
-    result =
    command("PORT %d,%d,%d,%d,%d,%d",
        UC(a[0]), UC(a[1]), UC(a[2]), UC(a[3]),
        UC(p[0]), UC(p[1]));
+af = ex_af2prot(data_addr.su_family);
+if (try_eprt && af > 1) { /* only IPv6 */
+    if (getnameinfo((struct sockaddr *)&data_addr, len,
+        hbuf, sizeof(hbuf), pbuf, sizeof(pbuf),
+        NI_NUMERICHOST | NI_NUMERICSERV) == 0) {
+        result = command("EPRT [%d/%s/%s]",
+            af, hbuf, pbuf);
+        if (result != COMPLETE) {
+            try_eprt = 0;
+        } else {
+            goto prt_done;
+        }
+    } else {
+        result = COMPLETE + 1;
+    }
+    if (result == COMPLETE)
+        goto prt_done;
+    if (tmpno)
+        @ @ -1172,13 +1432,47 @ @
+    +p = (u_char *)&data_addr.su_port;
+    +switch (data_addr.su_family) {
+        case AF_INET:
+            af = (u_char *)&data_addr.su_sin.sin_addr;
+result = command("PORT %u,%u,%u,%u,%u,%u", 
+a[0], a[1], a[2], a[3], p[0], p[1]);
+break;
+#ifdef INET6
+case AF_INET6:
+a = (u_char *)&data_addr.sin.sin_addr;
+result = command(
+"LPRT 6,16,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d", 
+a[0], a[1], a[2], a[3], a[4], a[5], a[6], a[7],
+a[8], a[9], a[10], a[11], a[12], a[13], a[14], a[15],
+p[0], p[1]);
+break;
+#endif
+default:
+result = COMPLETE + 1; /* xxx */
+

+prt_done:
+if (result == ERROR && sendport == -1) {
+sendport = 0;
+tmpno = 1;
+@@ -1189,9 +1483,12 @@
+if (tmpno)
+sendport = 1;
+#ifdef IP_TOS
+if (data_addr.su_family == AF_INET)
+{on = IPTOS_THROUGHPUT;
+if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&on, sizeof(int)) < 0)
+perror("ftp: setsockopt TOS (ignored)");
+}
+#endif
+return (0);
+bad:
+@@ -1204,7 +1501,7 @@
+static FILE *
dataconn(const char *lmode)
+{
+struct sockaddr_in from;
+union sockunion from;
+int s, tos;
+socklen_t fromlen = sizeof(from);
+
+@ -1220,9 +1517,12 @@
+(void) close(data);
+data = s;
+#ifdef IP_TOS
+if (from.su_family == AF_INET)
+
  tos = IPTOS_THROUGHPUT;
if (setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
perror("ftp: setsockopt TOS (ignored)");
+
#endif
return (fdopen(data, lmode));
}
@@ -1284,8 +1584,8 @@
static struct comvars {
  int connect;
  char name[MAXHOSTNAMELEN];
-  struct sockaddr_in mctl;
-  struct sockaddr_in hctl;
+  union sockunion mctl;
+  union sockunion hctl;
  FILE *in;
  FILE *out;
  int tpe;
@@ -1323,7 +1623,7 @@
  if (hostname) {
    (void) strncpy(ip->name, hostname, sizeof(ip->name) - 1);
    -ip->name[strlen(ip->name)] = '\0';
+  ip->name[sizeof(ip->name) - 1] = '\0';
  }
else {
  ip->name[0] = 0;
@@ -1352,18 +1652,18 @@
  ip->ntflg = ntflg;
  ntflg = op->ntflg;
  (void) strncpy(ip->nti, ntin, 16);
-  (ip->nti)[strlen(ip->nti)] = '\0';
+  (ip->nti)[16] = '\0';/* shouldn't use strlen */
  (void) strcpy(ntin, op->nti);
  (void) strncpy(ip->nto, ntout, 16);
-  (ip->nto)[strlen(ip->nto)] = '\0';
+  (ip->nto)[16] = '\0';
  (void) strcpy(ntout, op->nto);
  ip->mapflg = mapflag;
  mapflag = op->mapflag;
  (void) strncpy(ip->mi, mapin, MAXPATHLEN - 1);
-  (ip->mi)[strlen(ip->mi)] = '\0';
+  (ip->mi)[MAXPATHLEN - 1] = '\0';
  (void) strcpy(mapin, op->mi);
  (void) strncpy(ip->mo, mapout, MAXPATHLEN - 1);
-  (ip->mo)[strlen(ip->mo)] = '\0';
+  (ip->mo)[MAXPATHLEN - 1] = '\0';
(void) strcpy(mapout, op->mo);
(void) signal(SIGINT, oldintr);
if (abrtflag) {
  diff -uNr netkit-ftp-0.17/ftp/ftp_var.h netkit-ftp/ftp/ftp_var.h
  --- netkit-ftp-0.17/ftp/ftp_var.h Sat Oct  2 21:39:17 1999
  +++ netkit-ftp/ftp/ftp_var.h Fri Jan 12 23:36:27 2001
  @@ -1,3 +1,5 @@
  */ SUSAGI */
  +
  /*
  * Copyright (c) 1985, 1989 Regents of the University of California.
  * All rights reserved.
  @@ -31,7 +33,7 @@
  * SUCH DAMAGE.
  *
  * from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
  -*Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
  +*Id: ftp_var.h,v 1.3 2001/01/12 21:36:27 sekiya Exp $
  */

  @@ -112,6 +114,8 @@
  Extern int mflag;/* flag: if ! = 0, then active multi command */
  Extern int options;/* used during socket creation */
  +Extern int try_epsv;/* try EPSV for this session */
  +Extern int try_eprt;/* try EPRT for this session */

  /*
  * Format of command table.
  @@ -140,7 +144,7 @@
  Extern char macbuf[4096];
  #define MACBUF_SIZE 4096

  -char *hookup(char *host, int port);
  +char *hookup(const char *host, const char *port);
  struct cmd *getcmd(const char *);
  char **makeargv(int *pargc, char **parg);
  int dologin(const char *host);

  Found in path(s):
  * /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp.usagi-ipv6.patch
  No license file was found, but licenses were detected in source scan.

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from: @{#}pathnames.h %5.2 (Berkeley) 6/1/90
*/

Found in path(s):
* /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp-0.17.tar.gz-cosi-expand-archive-Sw4l6Azr/netkit-ftp-0.17/ftp/pathnames.h

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

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FROM: @(#)ftp.1 6.18 (Berkeley) 7/30/91

Found in path(s):
* /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp-0.17.tar.gz-cosi-expand-archive-Sw4l6Azr/netkit-ftp-0.17/ftp/ftp.1

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" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
Found in path(s):
* /opt/cola/permits/1175309818_1624358660.49/0/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-ftp-0.17.tar.gz-cosi-expand-archive-Sw4l6Azr/netkit-ftp-0.17/ftp/netrc.5

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Summary: The standard UNIX FTP (File Transfer Protocol) client
Name: ftp
Version: 0.17
Release: 78%{?dist}
License: BSD with advertising
Group: Applications/Internet
Patch1: netkit-ftp-0.17-pre20000412.pasv-security.patch
Patch2: netkit-ftp-0.17-acct.patch
Patch3: netkit-ftp.usagi-ipv6.patch
Patch4: netkit-ftp-0.17-segv.patch
Patch5: netkit-ftp-0.17-volatile.patch
Patch6: netkit-ftp-0.17-runique_mget.patch
Patch7: netkit-ftp-locale.patch
Patch8: netkit-ftp-0.17-printf.patch
Patch9: netkit-ftp-0.17-longint.patch
Patch10: netkit-ftp-0.17-vsftp165083.patch
Patch11: netkit-ftp-0.17-C-Frame121.patch
Patch12: netkit-ftp-0.17-data.patch
Patch13: netkit-ftp-0.17-multihome.patch
Patch14: netkit-ftp-0.17-longnames.patch
Patch15: netkit-ftp-0.17-multipv6.patch
Patch16: netkit-ftp-0.17-nodebug.patch
Patch17: netkit-ftp-0.17-stamp.patch
Patch18: netkit-ftp-0.17-sigseg.patch
Patch19: netkit-ftp-0.17-size.patch
Patch20: netkit-ftp-0.17-fdleak.patch
Patch21: netkit-ftp-0.17-fprintf.patch
Patch22: netkit-ftp-0.17-bitrate.patch
Patch23: netkit-ftp-0.17-arg_max.patch
Patch24: netkit-ftp-0.17-case.patch
Patch25: netkit-ftp-0.17-chkmalloc.patch
Patch26: netkit-ftp-0.17-man.patch
Patch27: netkit-ftp-0.17-acct_ovl.patch
Patch28: netkit-ftp-0.17-remove-nested-include.patch
Patch29: netkit-ftp-0.17-linelen.patch
Patch30: netkit-ftp-0.17-active-mode-option.patch
Patch31: netkit-ftp-0.17-commands-leaks.patch
Patch32: netkit-ftp-0.17-Isn-timeout.patch
Patch33: netkit-ftp-0.17-getlogin.patch
Patch34: netkit-ftp-0.17-token.patch
Patch35: netkit-ftp-0.17-out-of-memory.patch
Patch36: netkit-ftp-0.17-makeargv-linelen.patch

BuildRequires: glibc-devel, readline-devel, ncurses-devel
BuildRequires: perl-interpreter

%description
The ftp package provides the standard UNIX command-line FTP (File Transfer Protocol) client. FTP is a widely used protocol for transferring files over the Internet and for archiving files.

If your system is on a network, you should install ftp in order to do file transfers.

%prep
%setup -q -n netkit-ftp-%{version}
%patch1 -p1
%patch2 -p1 -b .acct
%patch3 -p1 -b .ipv6
%patch4 -p1 -b .segv
%patch5 -p1 -b .volatile
%patch6 -p1 -b .runique_mget
%patch7 -p1 -b .locale
%patch8 -p1 -b .printf
%patch9 -p1 -b .longint
%patch10 -p1 -b .vsftp165083
%patch11 -p1 -b .C-Frame121
%patch12 -p1 -b .data
%patch13 -p1 -b .multihome
%patch14 -p1 -b .patch
%patch15 -p1 -b .multiipv6
%patch16 -p1 -b .nodebug
%patch17 -p1 -b .stamp
%patch18 -p1 -b .sigseg
%patch19 -p1 -b .size
%patch20 -p1 -b .fleak
%patch21 -p1 -b .fprintf
%patch22 -p1 -b .bitrate
%patch23 -p1 -b .arg_max
%patch24 -p1 -b .case
%patch25 -p1 -b .chkmalloc
%patch26 -p1 -b .man
%patch27 -p1 -b .acct_ovl
%patch28 -p1
%patch29 -p1 -b .linelen
%patch30 -p1 -b .activemode
%patch31 -p1 -b .cmds-leaks
%patch32 -p1 -b .lsn-timeout
%patch33 -p1 -b .getlogin
%patch34 -p1 -b .token
%patch35 -p1 -b .out-of-memory
%patch36 -p1 -b .makeargv

%build
sh configure --with-c-compiler=gcc --enable-ipv6
perl -pi -e 's,^CC=.*$,CC=cc,;s,-O2,\$(RPM_OPT_FLAGS) -D_GNU_SOURCE -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -D_FILE_OFFSET_BITS=64,;s,^LDFLAGS=.*$,LDFLAGS=\$(RPM_LD_FLAGS),;s,^BINDIR=.*$,BINDIR=\%{_bindir},;s,^MANDIR=.*$,MANDIR=\%{_mandir},;s,^SBINDIR=.*$,SBINDIR=\%{_sbindir},;' MCONFIG
make %{?_smp_mflags}

%install
mkdir -p \$(RPM_BUILD_ROOT)\%{_bindir}
mkdir -p \$(RPM_BUILD_ROOT)\%{_mandir}/man1
mkdir -p \$(RPM_BUILD_ROOT)\%{_mandir}/man5
make INSTALLROOT=\$(RPM_BUILD_ROOT) install

%files
%\{_bindir\}/ftp
%\{_bindir\}/pftp
%\{_mandir\}/man1/ftp.*
%\{_mandir\}/man1/pftp.*
%\{_mandir\}/man5/inetrc.*

%changelog
* Tue Dec 11 2018 Michal Ruprich <mruprich@redhat.com> - 0.17-78
  - Resolves: #1657821 - netkit ftp client buffer overflow in makeargv

* Tue Nov 13 2018 Michal Ruprich <mruprich@redhat.com> - 0.17-77
  - Resolves: #1645120 - ftp put failed with 'ftp: Out of memory' when stacksize set to unlimited
* Fri Aug 31 2018 Michal Ruprich <mruprich@redhat.com> - 0.17-76
  - Resolves: #1624112 - Review annocheck distro flag failures in ftp
  - Fixed bogus dates in log

* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 0.17-75
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Aug 02 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.17-74
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Binutils_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.17-73
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 0.17-72
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Thu Jan 12 2017 Igor Gnatenko <ignatenko@redhat.com> - 0.17-71
  - Rebuild for readline 7.x

* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 0.17-70
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-69
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Feb 21 2015 Till Maas <opensource@till.name> - 0.17-68
  - Rebuilt for Fedora 23 Change
  https://fedoraproject.org/wiki/Changes/Harden_all_packages_with_position-independent_code

* Sat Aug 16 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-67
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-66
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-65
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-64
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Oct 30 2012 Jan Synak <jsynacek@redhat.com> - 0.17-63
  - Fix buffer overflow in token parsing
  - Resolves: #871296

* Tue Oct 30 2012 Jan Synak <jsynacek@redhat.com> - 0.17-62
  - Fix linelen patch
- Resolves: #871290

* Wed Oct 03 2012 Jan Synek <jsynacek@redhat.com> - 0.17-61
  - Fix: FTP client does not expand home directory correctly after sudo or su
  - Resolves: #861113

* Tue Sep 25 2012 Jan Synek <jsynacek@redhat.com> - 0.17-60
  - Plug leaks in "put", "send", "append"
  - Add listening timeout

* Tue Aug 28 2012 Jan Synek <jsynacek@redhat.com> - 0.17-59
  - Add active mode option

* Fri Aug 03 2012 Jan Synek <jsynacek@redhat.com> - 0.17-58
  - Extend the input line buffer and the argument storage buffer
  - Prettyfy spec some more and remove trailing space

* Fri Jul 20 2012 Jan Synek <jsynacek@redhat.com> - 0.17-57
  - Remove nested include (fix compilation in rawhide)

* Thu Jul 19 2012 Jan Synek <jsynacek@redhat.com> - 0.17-56
  - Fixed Source0 and URL
  - Make spec fedora-review-friendly

* Thu Jul 19 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-56
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-55
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Sep 09 2011 Jiri Skala <jskala@redhat.com> - 0.17-54
  - fixes #737016 - ftp: off-by-one in account command parsing

* Tue Mar 29 2011 Jiri Skala <jskala@redhat.com> - 0.17-53
  - fixes #673850 - ftp(1) manpage fixes

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-52
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-51
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Tue Feb 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-50
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Dec 01 2008 Jiri Skala <jskala@redhat.com> - 0.17-49
  - Resolves: #473491 unchecked malloc
* Wed Apr 23 2008 Martin Nagy <mnagy@redhat.com> - 0.17-48
  fix mget when using case
  Resolves: #442712

* Mon Apr 07 2008 Martin Nagy <mnagy@redhat.com> - 0.17-47
  Use sysconf to get ARG_MAX instead of a macro (#440782)

* Tue Feb 19 2008 Fedora Release Engineering <rel-eng@fedoraproject.org> - 0.17-46
  Autorebuild for GCC 4.3

* Mon Jan 28 2008 Marcela Maslanova <mmaslano@redhat.com> - 0.17-45
  changed bitrate from 1e+03 KBytes/sec to 1000 kBytes/sec
  Resolves: rhbz#430457

* Thu Nov 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-44
  using fprintf instead of printf

* Mon Oct 22 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-43
  feature: for cmd size is switching to TYPE_I automatized
  bug: ftp leaks socket fds when it fails to open a file (#315241)
  rhbz#306191

* Fri Aug 24 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-42
  rebuilt (for mass rebuild)
  license tag checked

* Tue Aug 07 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-41
  #251074 add patch from Jan Kratochvil

* Thu Feb 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-40
  review again

* Wed Feb 14 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-39
  review again

* Wed Feb 7 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-38
  add gpl
  spec fix
  rhbz#225774

* Tue Jan 30 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-35
  nodebug package

* Wed Sep 13 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-33
  rebuilt

* Wed Aug 2 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.4
  fix (#199145) patch for IPv6 multihome
* Tue Jul 25 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.3
  - fix (#196103) patch for long filenames

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.2.1
  - rebuild

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.2
  - bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.1
  - rebuilt for new gcc4.1 snapshot and glibc changes

* Thu Jan 12 2006 Petr Raszyk <praszyk@redhat.com> - 0.17-32
  - support for multi-homed clients
    See #171621, netkit-ftp-0.17-multihome.patch

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 2 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-31
  - ftp does not close socket descriptor (if the remote file
    does not exist).
    See #174599, netkit-ftp-0.17-data.patch

* Wed Oct 26 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-30
  - The patch netkit-ftp-0.17-C-Frame121.patch adds some
    comments/hints for C-Frame 121. It can be removed any time.

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-29
  - rebuild

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-28
  - This 'hack' will avoid a bug in ftp-server
    ( < vsftpd-2.0.1-5   ). See #165083 (server prints the
    '150 FILE:...' line twice).
    This patch can be (later ?) removed.

* Mon Aug 22 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-27
  - overflow using 'hash mode' (printing '#' but
    not reading data from network - #79367)

* Tue May 24 2005 Miloslav Trmac <mitr@redhat.com> - 0.17-26
  - Fix passive mode with SELinux (#158234, patch by Nalin Dahyabhai)
  - Fix format string mismatch

* Fri Mar 04 2005 Jiri Ryska <jryska@redhat.com>
  - rebuilt
* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.17-24
  - Rebuilt for new readline.

* Wed Dec 15 2004 Tim Waugh <twaugh@redhat.com>
  - Call setlocale() so that readline works correctly (bug #142265).

* Tue Dec 7 2004 Thomas Woerner <twoerner@redhat.com> 0.17-23
  - fixed mget with runique (#79367)

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Mon Jun 14 2004 Alan Cox <alan@redhat.com>
  - Re-arranged some totally bogus old bezerkly code that could
    segfault ftp on connection loss. (BZ #122295)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Fri Dec 13 2002 Elliot Lee <sopwith@redhat.com>
  - Rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Fri Apr 12 2002 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-13
  - Recompile with support for files > 2 GB

* Mon Jun 25 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-12
  - Add some Build dependencies (#45007)

* Fri May 18 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-11
  - Actually apply Patch #3

* Fri May 11 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-10
  - Rebuild with new readline

* Sun Apr 15 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Add IPv6 patch (RFE #35642)

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Sun Jan 21 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Update to 0.17 final
- Fix up ACCT support in netrc (Bug #17353)

* Wed Aug 16 2000 Philipp Knirsch <pknirsch@redhat.com>
- Switched the default transfer protocol from PORT to PASV as proposed on
  bugzilla (#16134)
- Fixed a small compiler warning in ftp.c line 886

* Fri Jul 14 2000 Jeff Johnson <jbj@redhat.com>
- add netrc man page (#7443).
- fix possible buffer overflows in ftp client.

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17-pre20000412.

* Wed Apr  5 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- rebuild with current libreadline

* Fri Mar 24 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- 0.17

* Fri Feb  4 2000 Bill Nottingham <notting@redhat.com>
- handle compressed man pages

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
- the ftp client does not require inetd

* Wed Dec 22 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Mon Aug 30 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- enable readline support (#3796).

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

Found in path(s):
* /opt/cola/permits/1175309818_1624358660.490/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/ftp.spec
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1175309818_1624358660.490/ftp-0.17-78.el8-1.src.rpm-cosi-expand-archive-WkffOapb/netkit-
1.1709 opentracing-go-stdlib 1.0.0
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/**  
* A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream 
* [@link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a 
* SAX event flow from the XStream serialization of a list of list of Java objects.  
* <p>  
* As a 
* custom SAX parser, this class ignores the arguments of the two standard parse methods ([@link 
* #parse(java.lang.String)])  
* and ([@link #parse(org.xml.sax.InputSource))] but relies on a proprietary SAX property 
* [@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.  
* </p>  
* <p>  
* Configuration of this SAX parser is achieved through the standard  
* [@link #setProperty SAX property mechanism]. While specific setter methods require direct 
* access to the parser instance, SAX properties support configuration settings to be propagated 
* through a chain of [@link org.xml.sax.XMLFilter filters] down to the underlying parser 
* object.  
* </p>  
* <p>  
* This mechanism shall be used to configure the 
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the 
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].  
*/
Sets the value of a property.

The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but to be unable to set its value.

XMLReaders are not required to recognize setting any specific property names, though a core set is provided with SAX2.

Some property values may be immutable or mutable only in specific contexts, such as before, during, or after a parse.

This method is also the standard mechanism for setting extended handlers.

Note: This implementation only supports two (proprietary) properties: \{@link #CONFIGURED_XSTREAM_PROPERTY\} and \{@link #SOURCE_OBJECT_LIST_PROPERTY\}.

@Param name  the property name, which is a fully-qualified URI.
@Param value the requested value for the property.
@Throws SAXNotRecognizedException when the XMLReader does not recognize the property name.
@Throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.
@See #getProperty

Parses an XML document from a system identifier (URI).

This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:

```
parse(new InputSource(systemId));
```

If the system identifier is a URL, it must be fully resolved
by the application before it is passed to the parser.</p>

<p>
<br/>

Note: As a custom SAX parser, this class ignores the systemId argument of this method and relies on the proprietary SAX property to define the list of objects to serialize.

@throws SAXException Any SAX exception, possibly wrapping another exception.

@see #parse(org.xml.sax.InputSource)

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  jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java
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  jar/com/thoughtworks/xstream/converters/ConverterRegistry.java
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  jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
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jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/path/PathTracker.java
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Found in path(s):
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jar/com/thoughtworks/xstream/io/xml/JDomDriver.java
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jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java
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  jar/com/thoughtworks/xstream/security/AnyTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/NoTypePermission.java
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  jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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  jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java

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 * /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
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  jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/util/QuickWriter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/ArrayMapper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/util/Primitives.java
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jar/com/thoughtworks/xstream/io/json/JsonWriter.java
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jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java
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  jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
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  jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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  jar/com/thoughtworks/xstream/io/path/package.html
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/AbstractDriver.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/mapper/MapperWrapper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/ConversionException.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
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  jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java

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  jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/time/DurationConverter.java

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.15
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.15 Sources
Eclipse-SourceBundle: xstream;version=1.4.15
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

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  jar/com/thoughtworks/xstream/io/xml/DomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/xml/XomReader.java
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jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java
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  jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
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  jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
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  jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java
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jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/ReferencingMarshallingContext.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
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jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java
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jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java

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* com.thoughtworks.xstream.convertersreflection.
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  jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1.4.15-sources-
  jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1.4.15-sources-
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* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/LoggerFactory.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/SubstituteLogger.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/MarkerFactory.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/MDC.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/ILoggerFactory
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/NOPMarkerBase.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/MessageFormatter.java
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/IMarkerFactory
* /opt/cola/permits/1166802655_1621500063.86/0/slf4j-api-1-8-0-beta4-sources-2-jar/org/slf4j/helpers/NamedMarkerBase.java
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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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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1725 **bytebufferpool 1.0.0**

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1.1726 **logwatch 7.4.3-9.el8**

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## Pako v1.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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* https://github.com/adoptium/jdk8u
* https://github.com/adoptium/jdk11u
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# Vendored Dependency Licenses

Nokogiri ships with some third party dependencies, which are listed here along with their licenses.

Note that this document is broken into multiple sections, each of which describes the dependencies of a different "platform release" of Nokogiri.

<!-- regenerate TOC with `markdown-toc -i` -->

<!-- toc -->

- [Platform Releases][#platform-releases]
  * [Default platform release ("ruby")][#default-platform-release-ruby]
  * [Native Linux platform releases ("x86_64-linux" and "arm64-linux")][#native-linux-%E2%93%A1-platform-releases-x86_64-linux-and-arm64-linux]
  * [Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")][#native-darwin-
Anyone consuming this file via license-tracking software should endeavor to understand which gem file you're downloading and using, so as not to misinterpret the contents of this file and the licenses of the software being distributed.

You can double-check the dependencies in your gem file by examining the output of `nokogiri -v` after installation, which will emit the complete set of libraries in use (for versions `>= 1.11.0.rc4`).

In particular, I'm sure somebody's lawyer, somewhere, is going to freak out that the LGPL appears in this file; and so I'd like to take special note that the dependency covered by LGPL, `libiconv`, is only being redistributed in the native Windows and native Darwin platform releases. It's not present in default, Java, or native Linux releases.

### Platform Releases

#### Default platform release ("ruby")

The default platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "ruby" for its "platform" attribute.

#### Native Linux platform releases ("x86_64-linux" and "arm64-linux")
The native Linux platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-linux" or "x86-linux" for its "platform.cpu" attribute.

### Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")

The native Darwin platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-darwin" or "arm64-darwin" for its "platform.cpu" attribute. Darwin is also known more familiarly as "OSX" or "macOS" and is the operating system for many Apple computers.

### Native Windows platform releases ("x86-mingw32" and "x64-mingw32")

The native Windows platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x64-mingw32" or "x86-mingw32" for its "platform.cpu" attribute.

### Java (JRuby) platform release ("java")

The Java platform release distributes the following dependencies as compiled jar files:

- [isorelax](#isorelax)
- [jing](#jing)
- [nekodtd](#nekodtd)
- [nekohtml](#nekohtml)
- [xalan](#xalan)
- [xerces](#xerces)
- [xml-apis](#xml-apis)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "java" for its "platform.os" attribute.

---

## Appendix: Dependencies' License Texts

This section contains a subsection for each potentially-distributed dependency, which includes the name of the license and the license text.

Please see previous sections to understand which of these potential dependencies is actually distributed in the gem file you're downloading and using.

### libgumbo and nokogumbo

Apache 2.0

https://github.com/rubys/nokogumbo/blob/f6a7412/LICENSE.txt

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The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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## DOM Level 3 Core Specification v1.0

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David Megginson, david@megginson.com
2000-05-05

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## xwd v1.0.7

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1.1733 libuser 0.62 23.el8

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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its purpose remains meaningful.

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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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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.)

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

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

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

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

That's all there is to it!

1.1734 mesa 20.3.3-2.el8
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Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> >
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

---

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:
2. Redistributions in binary form must reproduce the following statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1743 opencensus 0.23.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detiefs (detiefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttenun (Ari.Huttenun@hit.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) Boost Software License - Version 1.0 - August 17th, 2003

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
1.1747 golang-mock 1.6.0

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package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

type Empty interface {}

// This is a mock copyright header.

// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
    ctrl     *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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1.1748 glib 2.56.4-8.el8

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1.1755 tdb 1.45.6

1.1755.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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Theodore Ts'o
23-June-2007

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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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Gadi Oxman, August 1995

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

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1.1778 elasticsearch-rest-client 7.17.0

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Type mapping behavior may be customized by providing a \{@link com.sun.jna.TypeMapper\} for the \{@link com.sun.jna.Library#OPTION_TYPE_MAPPER\} option when initializing a library interface. See \{@link com.sun.jna.win32.W32APITypeMapper\} for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types <em>must</em> provide a mapping to one of the basic or derived types listed above.

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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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or
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of these things:

a) Accompany the work with the complete corresponding
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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
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the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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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1.1795 netifaces 0.10.6

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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.6
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.6

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   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
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It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

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tar xvzf netifaces-0.10.6.tar.gz
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```

**Note that you will need the relevant developer tools for your platform**, as netifaces is written in C and installing this way will compile the extension.

Once that's done, you'll need to start Python and do something like the
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Then if you enter

```python
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['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `AF_LINK` (which means the link layer interface, e.g. Ethernet), 2 is `AF_INET` (normal Internet addresses), and 30 is `AF_INET6` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*. 
*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

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>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `''SIOCGIFHWADDR''`. Note also that you just get the address; it's unlikely that you'll see anything else with an `''AF_LINK''` address.

Oh, and don't assume that all `''AF_LINK''` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```
This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

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```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
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```

Do note that there may be no default gateway for any given address family: this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

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It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?
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because someone released a fork of netifaces with the version 0.9.0.
hopefully skipping the version number should remove any confusion. in
addition starting with 0.10.0 python 3 is now supported and other
features/bugfixes have been included as well. see the changelog for a
more complete list of changes.

platform: unknown
classifier: development status :: 4 - beta
classifier: intended audience :: developers
classifier: license :: osi approved :: mit license
classifier: topic :: system :: networking
classifier: programming language :: python
classifier: programming language :: python :: 2
classifier: programming language :: python :: 2.5
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* /opt/cola/permits/1141667725_1615137096.07/0/netifaces-0-10-6-1-tar-gz/netifaces-0.10.6/netifaces.egg-info/PKG-INFO
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netifaces 0.10.6

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

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
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Found in path(s):
* /opt/cola/permits/1141667725_1615137096.07/0/netifaces-0-10-6-1-tar-gz/netifaces-0.10.6/README.rst
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license="MIT License",
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* /opt/cola/permits/1141667725_1615137096.07/0/netifaces-0-10-6-1-tar-gz/netifaces-0.10.6/setup.py

1.1796 aws-sdk-resources 2.11.632
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GPL-3.0-only
GPL-3.0-or-later
gSOAP-1.3b
HaskellReport
HPND
IBM-pibs
ICU
IJG
ImageMagick
iMatix
Imlib2
Info-ZIP
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Intel
Interbase-1.0
IPA
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JasPer-2.0
JSON
LAL-1.2
LAL-1.3
Latex2e
Leptonica
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1-only
LGPL-2.1-or-later
LGPL-3.0-only
LGPL-3.0-or-later
LGPLLR
Libpng
libtiff
LiLiQ-P-1.1
LiLiQ-R-1.1
LiLiQ-Rplus-1.1
LPL-1.0
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LPPL-1.0
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MakeIndex
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MIT-CMU
MIT-enna
MIT-feh
MIT
MITNFA
Motosoto
mpich2
MPL-1.0
MPL-1.1
MPL-2.0-no-copyleft-exception
MPL-2.0
MS-PL
MS-RL
MTLL
Multics
Mup
NASA-1.3
Naumen
NBPL-1.0
NCSA
Net-SNMP
NetCDF
Newsletr
NGPL
NLOD-1.0
NLPL
Nokia
NOSL
Noweb
NPL-1.0
NPL-1.1
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ODbl-1.0
OFL-1.0
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OLDAP-1.1
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OLDAP-1.4
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OLDAP-2.0
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OLDAP-2.2.1
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OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
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OPL-1.0
OSET-PL-2.1
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OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
psfrag
psutil
Python-2.0
Qhull
QPL-1.0
Rdisc
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RPL-1.5
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SGI-B-1.0
SGI-B-1.1
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SISSL-1.2
SISSL
Sleepycat
SMLNJ
SMPPL
SNIA
Spencer-86
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SPL-1.0
SugarCRM-1.1.3
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Xerox
XFree86-1.1
xinetd
Xnet
xpp
XSkat
YPL-1.0
YPL-1.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
zlib-acknowledgement
Zlib
ZPL-1.1
ZPL-2.0
ZPL-2.1
AGPL-3.0
eCos-2.0
GFDL-1.1
GFDL-1.2
GFDL-1.3
GPL-1.0+
GPL-1.0
GPL-2.0+
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-2.0-with-GCC-exception
GPL-2.0
GPL-3.0+
GPL-3.0-with-autoconf-exception
GPL-3.0-with-GCC-exception
GPL-3.0
LGPL-2.0+
LGPL-2.0
LGPL-2.1+
LGPL-2.1
LGPL-3.0+
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Nunit
StandardML-NJ
wxWindows

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

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

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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
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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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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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.
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any
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1.1807 basesystem 11-5.el8

1.1807.1 Available under license:
No license file was found, but licenses were detected in source scan.

%global distroname %(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})

Summary: The skeleton package which defines a simple %{distroname} system
Name: basesystem
Version: 11
Release: 5% {?dist}
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildArch: noarch

description
Basesystem defines the components of a basic %{distroname} system
(for example, the package installation order to use during bootstrapping).
Basesystem should be in every installation of a system, and it should never be removed.

%prep

%build
%install

%clean

%files
%defattr(-,root,root,-)

%changelog
* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos
  - adjust description
  - adjust summary

* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild

* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild

* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild

* Wed Feb 03 2016 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 11-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild

* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
  - automatically determine OS name at build time (#1195396)

* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag
* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
  - Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
  - Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Wed Sep 22 2004 Bill Nottingham <noting@redhat.com>
  - rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Aug 21 2002 Bill Nottingham <noting@redhat.com>
  - bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jun 6 2000 Bill Nottingham <noting@redhat.com>
  - rebuild, Wheee.
* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
- don’t require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
- require rpm

* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
- build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
- made a noarch package

Found in path(s):
* /opt/cola/permits/1110779314_1606853351.15/0/basesystem-11-5.el8-1.src.rpm-cosi-expand-archive-
kvFRR2fn/basesystem.spec

1.1808 yajl 2.1.0 10.el8

1.1808.1 Available under license :
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1.1809 microsoft.windows.sdk.buildtools
5.0.0.0
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Additional  -
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1811 logstash-filter-geoip 7.2.11

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1.1815 tomcat-util 9.0.41
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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[ #mpl
 # MPL Support, <boost/mp11/mpl.hpp>
 :toc:
 :toc-title:
 :idprefix:

 The header `boost/mp11/mpl.hpp`, when included, defines the
 necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link: ../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.1831 words 3.0-28.el8

1.1831.1 Available under license:

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Ascham
Asclepiadean
Asclepius
Ascot
Asgard
Ash Wednesday
Ashanti
Ashcroft
Asher
Ashford
Ashkhabad
Ashton
Ashton-under-Lyne
Ashtoreth
Ashur
Ashurbanipal
Asia
Asia Minor
Asian
Asian flu
Asiatic
Asiatic beetle
Asiatic cholera
Asiatic flu
Asir
Ask
Askja
Asmara
Asmodeus
Asoka
Aspasia
Asperges
Aspinwall
Asquith
Assam
Assamese
Asshur
Assiniboine
Assisi
Assiut
Associated Press
Assuan
Assur
Assurbanipal
Assyr.
Assyria
Assyrian
Assyriology
Astarte
Astarte
Asti
Astolat
Aston
Astor
Astoria
Astrakhan
Asturias
Astyanax
Asur
Aswan
Asyut
At
Atabrine
Atacama Desert
Atahualpa
Atalanta
Atbara
Ate
Aten
Athabaska
Athamas
Athanasian
Athanasi Creed
Athanasius
Athapaskan
Atharva-Veda
Athelstan
Athena
Athenian
Athens
Athos
Atkinson
Atlanta
Atlantean
Atlantic
Atlantic Charter
Atlantic City
Atlantic Intracoastal Waterway
Atlantic Ocean
Atlantic Provinces
Atlantis
Atlas
Atlas Mountains
Atli
Atomic Energy Commission
Aton
Atreus
Atropos
Att. Gen.
Attic
Attic salt
Attica
Atticism
Attila
Attis
Attlee
Attorney General
Attu
Au
Aube
Aubervilliers
Aubrey
Auckland
Aude
Auden
Audubon
Audubon Society
Audubon's warbler
Auer
Aug.
Augean
Augean stables
Auger effect
Augsburg
August
Augusta
Augustan
Augustine
Augustinian
Augustus
Aulic Council
Aunt Sally
Aurangzeb
Aurelian
Aurelius
Aureomycin
Auriga
Aurignacian
Auriol
Aurora
Aus.
Auschwitz
Ausgleich
Aussie
Aust.
Austen
Auster
Austerlitz
Austin
Austral.
Australasia
Australia
Australian
Australian Alps
Australian Capital Territory
Australian ballot
Australian crawl
Australian terrier
Australoid
Australopithecus
Australorp
Austrasia
Austria
Austria-Hungary
Austro-
Austroasiatic
Austronesia
Austronesian
Auth. Ver.
Authorized Version
Autoharp
Autolycus
Auvergne
Aux Cayes
Av
Avalokitesvara
Avalon
Avar
Ave
Ave Maria
Ave.
Avebury
Avellaneda
Aventine
Avernus
Averroes
Averroism
Avertin
Aves
Avesta
Avestan
Aveyron
Avicenna
Avignon
Avlona
Avogadro
Avogadro's law
Avon
Axminster carpet
Axum
Ayacucho
Ayer
Ayesha
Aylesbury
Aymara
Ayr
Ayrshire
Ayub Khan
Ayurveda
Azazel
Azerbaijan
Azerbaijani
Azikiwe
Azilian
Azores
Azov
Azrael
Aztec
B
B battery
B complex
B horizon
B’nai B’rith
B-
B.A.
B.A.A.
B.Arch.
B.B.C.
B.C.
B.C.E.
B.C.L.
B.Ch.
B.D.
B.D.S.
B.E.
B.E.F.
B.E.M.
B.Ed.
B.L.
B.Litt.
B.M.
B.Mus.
B.O.
B.O.D.
B.P.
B.Phil.
B.R.C.S.
B.S.
B.S.S.
B.Sc.
B.T.U.
B.V.
B.V.M.
B/D
Baden-Powell
Badoglio
Baeda
Baedeker
Baeyer
Baez
Baffin Bay
Baffin Island
Bagdad
Baghot
Baghdad
Baguio
Bahaism
Bahamas
Bahasa Indonesia
Bahia
Bahrain
Baikal
Bailey bridge
Bailly
Baily’s beads
Bairam
Baird
Baja California
Bakelite
Baker
Bakst
Baku
Bakunin
Bala
Balaam
Balakirev
Balaklava
Balanchine
Balaton
Balbo
Balboa
Balder
Baldwin
Baldwin I
Balearic Islands
Balenciaga
Balfour
Balfour Declaration
Bali
Balikpapan
Balinese
Baliol
Balkan
Balkan Mountains
Balkan Peninsula
Balkan States
Balkanize
Balkh
Balkhash
Ball
Ballance
Ballarat
Balliol
Balmoral
Balmung
Balt.
Balthazar
Baltic
Baltic Sea
Baltic States
Baltimore
Baltimore heater
Baltimore oriole
Balto-Slavic
Baluchi
Baluchistan
Balzac
Bamako
Bambara
Bamberg
Banbury
Banbury cake
Band-Aid
Banda
Banda Sea
Bandaranaike
Bandung
Banff
Bangalore
Bangka
Bangkok
Bangor
Bangui
Bangweulu
Banjermasin
Bank of England
Banka
Banks
Bannister
Bannockburn
Bantam
Banting
Bantu
Bantustan
Banville
Baptist
Barabba
Barbados
Barbarossa
Barbary
Barbary Coast
Barbary ape
Barber
Barbera
Barbirolli
Barbizon School
Barbuda
Barbusse
Barca
Barcelona
Barclay de Tolly
Bareilly
Barents Sea
Bari
Baring
Barmecidal
Barmecide
Barnabas
Barnard
Barnardo
Barnaule
Barneveld
Barneveld
Baroja
Barozzi
Barquisimeto
Barranquilla
Barrau
Barrie
Barros
Barrow
Barry
Barrymore
Barsac
Bart.
Barth
Bartholomew
Bartlett
Bartolommeo
Barton
Baruch
Bas-Rhin
Basel
Basenji
Bashan
Bashkir
Basie
Basil
Basildon
Basilian
Basilicata
Baskerville
Basket Maker
Basle
Basque
Basque Provinces
Basra
Bass Strait
Basse-Terre
Basses-Alpes
Basseterre
Bastia
Bastille Day
Bastogne
Basuto
Basutoland
Bataan
Batan Islands
Batangas
Batavia
Bates
Bath
Bath chair
Bath stone
Bathsheba
Bathurst
Batista
Baton Rouge
Battle of Britain
Baucis
Baudelaire
Baudouin I
Bauer
Bauhaus
Baum
Bautzen
Bavaria
Bavarian cream
Bax
Bayard
Bayern
Bayeux tapestry
Bayle
Bayonne
Bayreuth
Baziotes
Be
Beach-la-Mar
Beaconsfield
Beadle
Beaker folk
Beardsley
Beat Generation
Beatty
Beaufort
Beaufort Sea
Beaufort scale
Beauharnais
Beaujolais
Beaumarchais
Beaumont
Beaune
Beauvais
Beauvoir
Beaverboard
Beaverbrook
Bebel
Bechuana
Bechuanaland
Becket
Beckett
Beckford
Beckmann
Beccquerel
Bede
Bedford
Bedford cord
Bedfordshire
Bedivere
Bedlington terrier
Bedloe's Island
Bedouin
Beecham
Beecher
Beelzebub
Beerbohm
Beersheba
Beethoven
Beghard
Beguin
Beguine
Behan
Behistun
Behring
Beiderbecke
Beira
Beirut
Bel
Bel Paese
Belfast
Belfort
Belg.
Belgae
Belgian
Belgian Congo
Belgian hare
Belgium
Belgrade
Belgravia
Belial
Belisarius
Belize
Bell
Bellay
Belle Isle
Belleau Wood
Belleek
Bellerophon
Bellini
Bellinzona
Bellocc
Bellona
Bellow
Bellows
Belo Horizonte
Belorussia
Belostok
Belovo
Belsen
Belshazzar
Beltane
Bemba
Ben Bella
Ben Day process
Ben Lomond
Ben Nevis
Ben-Gurion
Ben-Zvi
Benadryl
Benares
Bendigo
Benedicte
Benedict
Benedict XV
Benedictine
Benedictus
Benelux
Benevento
Beng.
Bengal
Bengal light
Bengali
Benghazi
Beni
Beni Hasan
Benin City
Benjamin
Bennett
Bennington
Benoni
Bentham
Benthamism
Bentinck
Bentley
Benton
Benue
Benue-Congo
Benzedrine
Beograd
Beowulf
Berar
Berber
Berbera
Berchtesgaden
Bercy
Berdichev
Berenice’s Hair
Berenson
Berezina
Berezniki
Berg
Bergama
Bergamo
Bergen
Bergerac
Bergius
Bergman
Bergson
Bergsonism
Beria
Bering
Bering Sea
Bering Strait
Beriosova
Berkeleian
Berkeleianism
Berkeley
Berkeley
Bernadette
Bernadotte
Bernard
Bernard of Clairvaux
Bernardine
Bernese Alps
Bernese mountain dog
Bernhard
Bernina
Bernina Pass
Bernini
Bernoulli
Bernstein
Berry
Bertillon system
Berwick
Berwick-upon-Tweed
Berzelius
Bes
Besant
Bifrost
Big Ben
Big Bertha
Big Board
Big Dipper
Big Five
Bihar
Bihari
Biisk
Bikaner
Bikini
Bikol
Bilbao
Bildungsroman
Bill of Rights
Billiton
Billy the Kid
Bim
Binet-Simon scale
Bingen
Binh Dinh
Bini
Bircher
Bird
Burkenhead
Birmingham
Bisayas
Biscay
Bisitun
Bisk
Biskra
Bismarck
Bismarck Archipelago
Bismarck herring
Bissau
Bisutun
Bithynia
Bitolj
Bitter Lakes
Biysk
Bizerte
Bizet
Bk
Black
Black Country
Black Death
Black Forest
Black Friar
Black Hand
Black Hills
Black Maria
Black Mass
Black Monk
Black Mountains
Black Muslim
Black Panther
Black Power
Black Prince
Black Rod
Black Russian
Black Sea
Black Volta
Black Watch
Black and Tan
Blackbeard
Blackburn
Blackburnian warbler
Blackett
Blackfoot
Blackpool
Blackstone
Blackwall hitch
Blackwood
Blagoveshchensk
Blake
Blanc
Blaue Reiter
Blavatsky
Blenheim
Blenheim spaniel
Blessed Sacrament
Blessed Virgin
Blida
Bligh
Blindheim
Bliss
Bloch
Bloemfontein
Blois
Blok
Bloody Mary
Bloomfield
Bloomington
Bloomsbury
Blue Mountains
Blue Nile
Bluebeard
Blum
Bn.
Boabdil
Boadicea
Boanerges
Board of Trade unit
Boaz
Bobo-Dioulasso
Boccherini
Boccioni
Boche
Bochum
Bodhisattva
Bodleian
Bodoni
Body of Christ
Boehmenism
Boehmenist
Boehmite
Boeotia
Boeotian
Boer
Boer War
Boethius
Bofors gun
Bogart
Bogor
Bohemia
Bohemian
Bohemian Brethren
Bohemian Forest
Bohemianism
Bohol
Bohr
Bohr atom
Bohr theory
Boiardo
Bois de Boulogne
Bois-le-Duc
Boise
Boito
Bokhara
Bol.
Bolan Pass
Boleyn
Bolingbroke
Bolivar
Bolivia
Bologna
Bolognese
Bolshevik
Bolshevism
Bolshevist
Bolton
Boltzmann
Boltzmann constant
Bolzano
Bomarc
Bombay
Bombay duck
Bon
Bona
Bonaire
Bonaparte
Bonaventura
Bonaventure
Bonheur
Boniface
Bonin Islands
Bonn
Bonnard
Bonny
Book of Common Prayer
Book of Mormon
Boole
Boolean algebra
Boone
Booth
Bootle
Bora Bora
Bordeaux
Bordeaux mixture
Bordelaise
Border terrier
Boreas
Borgerhout
Borges
Borghese
Borgia
Borglum
Born
Borneo
Bornholm
Bornholm disease
Bornu
Breed's Hill
Bregenz
Bremen
Bremerhaven
Bren gun
Brenner Pass
Brentwood
Brescia
Breslau
Brest
Bretagne
Breton
Bretton Woods Conference
Breuer
Breughel
Brewster
Brewster chair
Brezhnev
Brian Boru
Briand
Briard
Briareus
Bride
Bridge
Bridge of Sighs
Bridgeport
Bridges
Bridget
Bridgetown
Bridgman
Brie
Brig.
Briggs
Bright
Bright's disease
Brighton
Brigid
Brigit
Brillat-Savarin
Brindisi
Brinell number
Brisbane
Bristol
Bristol Channel
Bristol board
Bristol fashion
Brit
Brit.
Britain
Britannia
Britannia metal
Britannic
Briticism
British
British Antarctic Territory
British Columbia
British Commonwealth of Nations
British East Africa
British Empire
British Guiana
British Honduras
British India
British Isles
British Legion
British Museum
British North America
British Somaliland
British Virgin Islands
British West Africa
British West Indies
British gum
British thermal unit
Britisher
Britishism
Briton
Brittany
Brittany spaniel
Britten
Brix scale
Brno
Broad
Broad Church
Broads
Broadway
Brobdingnagian
Broca
Brocken
Broglie
Broken Hill
Bromberg
Bromley
Bronx
Bronx cheer
Bronze Age
Brook Farm
Brooke
Brooklyn
Brooklynese
Brooks Range
Brother Jonathan
Brown
Brown Shirt
Brown Swiss
Browne
Brownian movement
Browning
Browning automatic rifle
Broz
Brubeck
Bruce
Bruch
Bruckner
Brueghel
Bruges
Brumaire
Brummell
Brundisium
Brunei
Brunel
Brunelleschi
Brunhild
Bruno
Brunswick
Brusa
Brussels
Brussels carpet
Brussels griffon
Brussels lace
Brussels sprout
Brutus
Bruxelles
Bryansk
Brynhild
Brython
Brythonic
Bs/L
Bt.
Buber
Bucaramanga
Bucephalus
Buchan
Buchanan
Bucharest
Buchenwald
Calchas
Calcutta
Calder
Caldwell
Caledonia
Caledonian
Caledonian Canal
Calgary
Cali
Caliban
Calicut
Calif.
California
California poppy
Caligula
Callaghan
Callao
Callas
Callicrates
Callimachus
Calliope
Callisto
Calpe
Caltanissetta
Calvados
Calvary
Calvary cross
Calvert
Calvin
Calvinism
Calypso
Cam
Camb.
Cambodia
Cambrai
Cambria
Cambrian
Cambridge
Cambridgeshire
Cambysses
Camden
Camelopardalis
Camelopardus
Camelot
Camembert
Camenae
Cameroon
Cameroun
Camorra
Campagna
Campania
Campbell
Campbell-Bannerman
Campbellite
Campeche
Campina Grande
Campinas
Campion
Campo Formio
Campo Grande
Campobello
Campos
Camus
Can.
Cana
Canaan
Canaanite
Canad.
Canada
Canada balsam
Canada goose
Canada thistle
Canadian
Canadian French
Canadian River
Canadian bacon
Canadian football
Canadian whiskey
Canadianism
Canal Zone
Canaletto
Canara
Canarese
Canary Islands
Canaveral
Canberra
Cancer
Candia
Candiot
Candlemas
Canea
Canes Venatici
Canicula
Canis Major
Canis Minor
Cannae
Castilla la Vieja
Castle walk
Castlereagh
Castor
Castor and Pollux
Castro
Castrop-Rauxel
Catalan
Catalina Island
Catalonia
Catania
Catanzaro
Catawba
Cath.
Cathar
Cathay
Catherine
Catherine I
Catherine II
Catherine of Aragon
Catherine of Siena
Catherine wheel
Catholic
Catholic Church
Catholic Epistles
Catholicism
Catholicity
Catiline
Cato
Catskill Mountains
Cattegat
Catullus
Cauca
Caucasia
Caucasian
Caucasoid
Caucasus
Cauchy
Caudine Forks
Cauvery
Cav.
Cavafy
Cavalier poets
Cavan
Cavell
Cavendish
Cavite
Cavour
Cawnpore
Caxton
Cayenne
Cayes
Cayman Islands
Cayuga
Cb
Cd
Cdr.
Ce
Cecil
Cecilia
Cecropia moth
Cecrops
Cedar Rapids
Celaeno
Celanese
Celebes
Celestial City
Celestial Empire
Cellini
Celluloid
Celsius
Celsius scale
Celt
Celt.
Celtic
Celtic cross
Cenis
Cenozoic
Centaurus
Central African Empire
Central African Federation
Central America
Central Intelligence Agency
Central Powers
Central Treaty Organization
Central time
Centralia
Cephalonia
Cepheid variable
Cepheus
Ceram
Cerberus
Cerenkov
Cerenkov radiation
Ceres
Cerro Gordo
Cerro de Pasco
Cervantes
Cervin
Cesarean
Cesena
Cetinje
Ceto
Cetus
Ceuta
Ceylon
Ceylon moss
Ceyx
Cf
Ch.B.
Ch.E.
Chablis
Chaco
Chad
Chadwick
Chaeronea
Chagall
Chagas' disease
Chagres
Chain
Chalcidice
Chalcis
Chaldea
Chaldean
Chaliapin
Cham
Chamaeleon
Chamberlain
Chambertin
Chamonix
Chamorro
Champagne
Champlain
Champollion
Chancellor of the Exchequer
Chancellorsville
Chandigarh
Chandler
Chandragupta
Chanel
Changchun
Changsha
Changteh
Channel Islands
Chantilly
Chantilly lace
Chanukah
Chao Phraya
Chaoan
Chaplin
Chapman
Charcot
Chardin
Charente
Charente-Maritime
Chari
Chari-Nile
Charing Cross
Charlemagne
Charleroi
Charles
Charles I
Charles II
Charles IV
Charles IX
Charles Martel
Charles V
Charles VI
Charles VII
Charles X
Charles the Great
Charles' law
Charles's Wain
Charleston
Charlotte
Charlotte Amalie
Charlottenburg
Charlottetown
Charlton
Charon
Charpentier
Charterhouse
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Chartres
Charybdis
Chatham
Chatham Islands
Chattanooga
Chatterton
Chaucer
Chaucerian
Chaumont
Chibchan
Chicago
Chichihigai
Chickamauga
Chickasaw
Chiclayo
Chief of Staff
Chifley
Chihli
Chihuahua
Chile
Chile saltpeter
Chilkoot Pass
Chillon
Chilon
Chilpancingo
Chiltern Hundreds
Chilung
Chimborazo
Chimkent
Chin.
China
China Sea
China aster
China rose
China silk
China tree
Chinaman
Chinatown
Chindwin
Chinese
Chinese Chippendale
Chinese Empire
Chinese Revolution
Chinese Turkestan
Chinese Wall
Chinese cabbage
Chinese calendar
Chinese checkers
Chinese ink
Chinese lantern
Chinese puzzle
Chinese red
Chinese wax
Chinese white
Chinese windlass
Chinese wood oil
Chinghai
Christlike
Christly
Christmas
Christmas Eve
Christmas Island
Christmas cactus
Christmas card
Christmas disease
Christmas pudding
Christmas rose
Christmas stocking
Christmas tree
Christmastide
Christo-
Christogram
Christology
Christophany
Christophe
Christopher
Christy
Chron.
Chronicles
Chrysostom
Chu Teh
Chubb
Chudskoye Ozero
Chukchi
Chukchi Sea
Chumash
Chungking
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Church of Christ
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Church of Rome
Churchill
Chuvash
Ci
Cibber
Cicero
Ciceronian
Cid
Cienfuegos
Ciliata
Cilicia
Cilician Gates
Cimabue
Cimbric
Cimmerian
Clifford
Clio
Clisthenes
Clive
Clotho
Clouet
Clough
Clovis I
Cluj
Cluny
Cluny lace
Clyde
Clydebank
Clydesdale
Clytemnestra
Cm
Cmdr.
Cnidus
Cnossus
Cnut
Co
Co.
Coahuila
Coatbridge
Coates
Cobbett
Cobden
Cobham
Coblenz
Coburg
Cochabamba
Cochin
Cochise
Cockaigne
Cockayne
Cockcroft
Cocos Islands
Cocteau
Cocytus
Cod
Codex Juris Canonici
Cody
Coeur de Lion
Cognac
Cohen
Coimbatore
Coimbra
Cointreau
Coke
Col.
Colbert
Colchester
Colchis
Coldstream Guards
Coleridge
Colet
Colette
Coligny
Colima
College of Cardinals
Collins
Colmar
Colo.
Cologne
Cologne brown
Colombes
Colombia
Colombo
Colonel Blimp
Colorado
Colorado Desert
Colorado Springs
Colorado beetle
Colorado potato beetle
Colossae
Colosseum
Colossian
Colossians
Colt
Colum
Columba
Columbia
Columbian
Columbine
Columbus
Columbus Day
Com.
Com. Ver.
Coma Berenices
Comanche
Comanchean
Comdr.
Comdt.
Comenius
Comines
Cominform
Cordova
Cordova
Corelli
Corfam
Corfu
Corinth
Corinthian
Corinthians
Coriolanus
Cork
Corneille
Cornish
Cornish pasty
Cornwall
Cornwallis
Coromandel Coast
Corona Australis
Corona Borealis
Corot
Corpus Christi
Corpus Juris Canonici
Corpus Juris Civilis
Correggio
Corregidor
Corriedale
Corrientes
Corse
Corsica
Cortes
Corunna
Corvus
Corybant
Corydon
Cos
Cosa Nostra
Cosenza
Cosgrave
Cosmotron
Cossack
Costa Brava
Costa Rica
Costermansville
Cotonou
Cotopaxi
Cotswold
Cotswolds
Cottbus
Cottian Alps
Coulomb
Coulomb's law
Council of Trent
Couperin
Courbet
Courbevoie
Courland
Court of Appeal
Court of Common Pleas
Court of Exchequer
Court of Session
Courtrai
Cousin
Cousteau
Covent Garden
Coventry
Coverdale
Coverley
Coward
Cowes
Cowley
Cowper
Cox
Coxsackie virus
Cr
Crab Nebula
Crabbe
Cracow
Craig
Craigie
Craiova
Cranach
Crane
Cranmer
Cranwell
Crashaw
Crassus
Crater
Credo
Cree
Creek
Cremona
Creole
Creon
Cressy
Cretaceous
Cretan
Crete
Creuse
Crichton
Crick
Crimea
Crimean War
Cripple Creek
Cripps
Criseyde
Crispi
Crispin
Cro-Magnon
Cro-Magnon man
Croat
Croatia
Croatian
Croce
Crockett
Crocodile River
Croesus
Croix de Guerre
Crompton
Cromwell
Cronus
Crookes
Crookes tube
Crosby
Cross
Croton bug
Crow
Croydon
Cruikshank
Crutched Friar
Crux
Cs
Ctesiphon
Cu
Cub
Cuba
Cuba libre
Cuban heel
Cuenca
Cufic
Culbertson
Culebra Cut
Culver's root
Cumae
Cumaean sibyl
Cuman
DD
DDT
DEW line
DM
DMSO
DMZ
DNA
DOVAP
DX
Dacca
Dachau
Dacia
Dacron
Dada
Daedalus
Dagan
Dagda
Dagenham
Dagon
Daguerre
Dagwood sandwich
Dahna
Dahomey
Dairen
Dak.
Dakar
Dakin's solution
Dakota
Daladier
Dalai Lama
Dale
Dalhousie
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Eastern Ghats
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Santayana
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Santiago del Estero
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Santos-Dumont
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Vandyke brown
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Yoruba
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Zeph.
Zephaniah
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annihilator
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astronautics
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astronomical telescope
astronomical unit
astronomical year
astronomy
astrophotography
astrophysics
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au pair
au revoir
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aurora borealis
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autobiography
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autochthon
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autograft
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autoicous
autointoxication
autoionization
autolithography
autolysin
autolysis
automat
automata
automate
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automatic pistol
automatic rifle
automatic tracking
automatic transmission
automation
automatism
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automaton
automobile
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automotive
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autonomic nervous system
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autopilot
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autopsy
autoradiograph
autorotation
autoroute
autosome
autostability
autostrada
autosuggestion
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autotoxin
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autotrophic
autotrack
autotype
autoxidation
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aviation badge
aviation cadet
aviation medicine
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aviatrix
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babe
babiche
babies'-breath
babirusa
baboon
babu
babul
babushka
baby
baby bond
baby carriage
baby grand
baby spot
baby talk
baby tooth
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baby-blue-eyes
baby-sit
baby-sitter
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bachelor's degree
bachelorism
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bacillus
bacitracin
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back country
back door
back down
back formation
back matter
back number
back out
back rest
back road
back scratching
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back stairs
back talk
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back up
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back-pedal
back-seat driver
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backsaw
backscratcher
backset
backsheesh
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badlands
badly
badman
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bailor
bailsman
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baked beans
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baker's dozen
bakery
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baking powder
baking soda
baklava
baksheesh
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balance rudder
balance sheet
balance spring
balance wheel
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balboa
balbriggan
balcony
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bald cypress
bald eagle
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balderdash
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baldric
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balky
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ball and chain
ball bearing
ball boy
ball cock
ball game
ball lightning
ball mill
ball of fire
ball valve
ball-and-socket joint
ball-pee hammer
ballad
ballad opera
ballad stanza
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balladeer
balladist
balladmonger
balladry
ballast
ballata
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ballet
ballflower
ballista
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ballistic galvanometer
ballistic missile
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ballonet
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balloon sail
balloon tire
balloon vine
ballot
ballot box
ballottement
ballplayer
ballroom
ballroom dancing
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bally
ballyhoo
ballyrag
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balm of Gilead
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balsa
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balsam poplar
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band saw
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band spectrum
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bang-up
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bank balance
bank bill
bank check
bank clerk
bank discount
bank examiner
bank holiday
bank indicator
bank loan
bank manager
bank note
bank on
bank rate
bank statement
bank swallow
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bankbook
banker
banker's check
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barber chair
barber's itch
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barbershop
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bark beetle
barkeeper
barkentine
barker
barking deer
barley
barley sugar
barley water
barleycorn
barn
barmaid
barman
barmy
barn
barn dance
barn owl
barn swallow
barnacle
barnacle goose
barney
barnstorm
barnyard
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barometric pressure
barometergraph
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baron of beef
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baroque organ
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barouche
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barquentine
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barracks bag
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barrel organ
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barrier reef
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barytes
baryton
barytone
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bas mitzvah
bas-relief
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basanite
bascinet
bascule
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base level
base metal
base on balls
base pay
base period
base rate
baseball
baseball glove
baseboard
baseborn
baseburner
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baseman
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basic slag
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basipetal
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basket chair
basket fern
basket hilt
basket weave
basket-handle arch
basketball
basketry
basketwork
basking shark
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bass drum
bass guitar
bass horn
bass viol
bassarisk
basset
basset horn
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basso continuo
basso profundo
basso-rilievo
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batsman
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battalion
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battering ram
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battle cruiser
battle cry
battle fatigue
battle group
battle lantern
battle line
battle royal
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battledore
battlefield
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battleplane
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baulk
bauxite
bavardage
bawbee
bawcock
bawd
bawdry
bawdy
bawdyhouse
bawl
bawl out
bay
bay leaf
bay lynx
bay oil
bay rum
bay tree
bay window
bayadere
bayard
bayberry
bayonet
bayou
baywood
bazaar
bazooka
bbl.
bd.
bd. ft.
bdellium
be
be-
be-all and end-all
beach
beach ball
beach buggy
beach flea
beach grass
beach plum
beach umbrella
beach wagon
beachcomber
beachhead
beacon
bead
bead-ruby
beaded
beading
beadle
beadledom
beadroll
beadsman
beady
beagle
beak
beaker
beam
beam antenna
beam compass
beam wind
beam-ends
beam-power tube
beaming
beamy
bean
bean caper
bean sprout
bean tree
beanery
beanfeast
beanie
beano
beanpole
beanstalk
bear
bear down
beautician
beautiful
beautifully
beautify
beauty
beauty parlor
beauty queen
beauty salon
beauty sleep
beauty spot
beaux
beaver
beaverette
bebeerine
bebeeru
bebop
becalm
becalmed
became
because
beccafico
bechance
becharm
beck
becket
becket bend
beckon
becloud
become
becoming
bed
bed and board
bed chair
bed jacket
bed linen
bed of roses
bedabble
bedaub
bedazzle
bedbug
bedchamber
bedclothes
bedcover
bedder
bedding
bedeck
bedel
bedesman
bedevil
bedew
bedfast
bedfellow
bedight
bedim
bedizen
bedlam
bedlamite
bedmate
bedpan
bedplate
bedpost
bedrabbles
bedraggle
bedraggled
bedrail
bedridden
bedrock
bedroll
bedroom
bedside
bedsore
bedspread
bedspring
bedstead
bedstraw
bedtime
bedtime story
bedwarmer
bee
bee beetle
bee fly
bee glue
bee killer
bee moth
bee plant
bee tree
bee-eater
beebread
beech
beech fern
beechnut
beef
beef cattle
beef extract
beef tea
beef-witted
beefburger
beefcake
beefeater
beefsteak
beefwood
beefy
beehive
beekeeper
beekeeping
beeline
been
beep
beer
beer and skittles
beer garden
beer pump
beery
beestings
beeswax
beeswing
beet
beet sugar
beetle
beetle-browed
beetroot
bees
beeker
befall
befit
befitting
befog
befool
before
beforehand
beforetime
befoul
befriend
befuddle
beg
beg off
began
begat
beget
beggar
beggar's-lice
beggarly
beggarweed
beggary
benighted
benign
benignant
benignity
benison
benjamin
benne
bennet
benny
bent
bent grass
benthal
bentonite
bentwood
benumb
benzaldehyde
benzene
benzene hexachloride
benzene ring
benzidine
benzine
benzo-
benzoate
benzoate of soda
benzocaine
benzofuran
benzoic
benzoic acid
benzoin
benzol
benzophenone
benzoyl
benzoyl peroxide
benzyl
bequeath
bequest
berate
berberidaceous
berberine
berceuse
bereave
bereft
beret
berg
berg wind
bergamot
bergschrand
beriberi
berkelium
berley
berlin
berm
berretta
berry
bersagliere
berseem
berserk
berserker
berth
bertha
beryl
beryllium
beseech
beseem
beset
besetting
beshrew
beside
besides
besiege
beslobber
besmear
besmirch
besom
besot
besotted
besought
bespangle
bespatter
bespeak
bespectacled
bespoke
bespread
besprent
besprinkle
best
best bower
best girl
best man
best seller
bestead
bestial
bestiality
bestialize
bestiary
bestir
bestow
bestraddle
bestrew
bestride
bet
bet.
beta
beta decay
beta iron
beta particle
beta ray
beta test
betaine
betake
betatron
betel
betel nut
betel palm
beth
bethel
bethink
bethought
betide
betimes
betoken
betony
betook
betray
betroth
betrothal
betrothed
beta
better
better half
betterment
betting shop
bettor
betulaceous
between
betweenetimes
betweenwhiles
betwixt
bevatron
bevel
bevel gear
bevel square
beverage
bevy
bewail
beware
bewhiskered
bewilder
bewilderment
bewitch
bewray
bey
beyond
bezant
bezel
bezique
bezoar
bezonian
bhakti
bhang
bharal
bi-
bialy
biannual
biannulate
bias
biased
biathlon
biauriculate
biaxial
bib
bib and tucker
bibb
bibber
bibcock
bibelot
bibl.
biblio-
biblioclast
bibliofilm
bibliog.
bibliogony
bibliographer
bibliography
bibliolatry
bibliology
bibliomania
bibliopegy
bibliophage
bibliophile
bibliopole
biff
biffin
bifid
bifilar
biflagellate
bifocal
bifocals
bifoliate
bifoliolate
biforate
biforked
biform
bifurcate
big
big band
big business
big cheese
big end
big game
big gun
big idea
big name
big noise
big shot
big stick
big talk
big time
big top
big tree
big wheel
big-bang theory
big-name
bigamist
bigamous
bigamy
bigener
bigeye
biggin
bighead
bighorn
bight
bigmouth
bignonia
bignoniaceous
bigot
bigoted
bigotry
bigwig
bijection
bijou
bijouterie
bijugate
bike
bikini
bilabial
bilabiate
bilander
bilateral
bilateral symmetry
bilberry
bilbo
bile
bilection
bilestone
bilge
bilge keel
bilharziasis
biliary
biliary calculus
bilinear
bilingual
bilious
bilk
bill
bill of attainer
bill of exchange
bill of fare
bill of health
bill of indictment
bill of lading
bill of particulars
bill of sale
billabong
billboard
billbug
billet
billet-doux
billfish
billfold
billhead
billhook
billiard
billiard ball
billiard parlor
billiard table
billiards
binnacle
binocular
binoculars
binomial
binomial distribution
binomial nomenclature
binomial theorem
binominal
binturong
binucleate
bio-
bioastronautics
biocatalyst
biocellate
biochemical oxygen demand
biochemistry
bioclimatology
biodegradable
biodynamics
bioecology
bioenergetics
biofeedback
biog.
biogen
biogenesis
biogeochemistry
biogeography
biographer
biographical
biography
biol.
biological
biological clock
biological warfare
biologist
biology
bioluminescence
biolysis
biomass
biome
biomedicine
biometrics
biometry
bionics
bionomics
biophysics
bioplasm
biopsy
bird-watcher
birdbath
birdcage
birdhouse
birdie
birdlike
birdlime
birdman
birdseed
birefringence
bireme
biretta
birl
birr
birth
birth certificate
birth control
birth rate
birthday
birthday suit
birthmark
birthplace
birthright
birthroot
birthstone
birthwort
bis
biscuit
bise
bisect
bisector
bisectrix
biserrate
bisexual
bishop
bishop's-cap
bishopric
bisk
bismuth
bismuthic
bismuthinite
bismuthous
bison
bisque
bissextile
bister
bistort
bistoury
black tea
black tie
black velvet
black vomit
black walnut
black whale
black widow
black-and-blue
black-and-white
black-backed gull
black-eyed Susan
black-eyed pea
black-market
black-marketeer
blackamoor
blackball
blackberry
blackbird
blackboard
blackcap
blackcock
blackdamp
blacken
blackface
blackfellow
blackfish
blackguard
blackguardly
blackhead
blackheart
blacking
blackjack
blackleg
blacklist
blackmail
blackness
blackout
blackpoll
blacksmith
blacksnake
blackstrap molasses
blacktail
blackthorn
blacktop
blackwater fever
bladder
bladder campion
bladder ketmia
blastocoel
blastocyst
blastoderm
blastogenesis
blastomere
blastopore
blastosphere
blastula
blat
blatant
blate
blather
blatherskite
blaubok
blaze
blazer
blazing star
blazon
blazonry
bldg.
bleach
bleacher
bleachers
bleaching powder
bleak
blear
blear-eyed
bleary
bleary-eyed
bleat
bleb
bleed
bleeder
bleeder's disease
bleeding
bleeding heart
blemish
blech
blend
blende
blended whiskey
blender
blennioid
blenny
blent
blespharitis
blesbok
bless
blow off
blow out
blow over
blow up
blow-by-blow
blower
blowfish
blowfly
blowgun
blowhard
blowhole
blowing
blown
blowout
blowpipe
blowsy
blowtorch
blowtube
blowup
blowy
blowzed
blowzy
blub
blubber
blubberhead
blubbery
blucher
bludge
bludgeon
blue
blue baby
blue blood
blue book
blue cheese
blue chip
blue crab
blue devils
blue fox
blue grouse
blue gum
blue jay
blue jeans
blue laws
blue mold
blue note
blue ointment
blue peter
blue point
blue racer
blue ribbon
blue shark
blue spruce
blue vitriol
blue whale
blue-collar
blue-eyed Mary
blue-eyed grass
blue-green
blue-green algae
blue-pencil
blue-ribbon jury
blue-sky law
bluebell
blueberry
bluebill
bluebird
bluebonnet
bluebottle
bluecoat
bluefish
bluegill
bluegrass
blueing
bluejacket
blueness
bluenose
bluepoint
blueprint
blues
bluestocking
bluestone
bluet
bluetongue
blueweed
bluey
bluff
bluing
bluish
blunder
blunderbuss
blunge
blunger
blunt
blur
blurb
blurt
blush
bluster
bo tree
bo's'n
boa
boa constrictor
boar
board
board foot
board measure
board of education
board of trade
board rule
board school
boarder
boarding
boarding school
boardinghouse
boardwalk
boarfish
boarhound
boarish
boart
boast
boaster
boastful
boat
boat deck
boat hook
boat neck
boat race
boat train
boatbill
boatel
boater
boathouse
boating
boatload
boatman
boatsman
boatswain
boatswain's chair
boatyard
bob
bob skate
bobbery
bobbin
bobbin lace
bogtrotter
bogus
bogy
bohunk
boil
boil down
boiled
boiled dinner
boiled shirt
boiled sweet
boiler
boiler room
boilermaker
boiling
boiling point
boisterous
bola
bold
bold-faced
boldface
bole
bolection
bolero
boletus
bolide
bolivar
boliviano
boll
boll weevil
bollard
bollix
bollworm
bolo
bologna
bolometer
boloney
bolster
bolt
bolter
boltonia
boltrope
bolus
bomb
bomb bay
bomb ketch
bomb rack
bomb shelter
bombacaceous
bombard
bombardier
bombardon
bombast
bombazine
bombe
bomber
bombproof
bombshell
bombsight
bombycid
bon mot
bon ton
bon vivant
bon voyage
bona fide
bona fides
bonanza
bonbon
bond
bond paper
bondage
bonded
bonded warehouse
bondholder
bondmaid
bondman
bondsman
bondstone
bondswoman
bondwoman
bone
bone ash
bone china
bone meal
bone of contention
bone oil
bone-dry
boneblack
bonefish
bonehead
boner
boneset
bonesetter
boneyard
bonfire
bongo
bonhomie
bonito
bonkers
bonne
bonne bouche
bonne foi
bonnet
bonnet monkey
bonnet rouge
bonny
bonnyclabber
bonsai
bonspiel
bontebok
bonus
bony
bony labyrinth
bonze
bonzer
boo
boo-boo
boob
booby
booby hatch
booby prize
booby trap
boodle
boogeyman
boogie
boogie-woogie
boohoo
book
book club
book end
book jacket
book learning
book of account
book review
book scorpion
book value
bookbinder
bookbindery
bookbinding
bookcase
bookcraft
bookie
booking
booking office
boots and saddles
bootstrap
booty
booze
boozer
boozy
bop
bor.
bora
boracic
boracite
borage
boragineous
borak
borate
borax
borborygmus
bordello
border
border line
bordereau
borderer
borderland
borderline
bordure
bore
boreal
borecole
boredom
borehole
borer
boresome
boric
boric acid
boride
boring
born
borne
borneol
bornite
boron
boron carbide
borosilicate
borough
borough-English
borrow
borrowing
borsch
bottleneck
bottom
bottom drawer
bottomless
bottommost
bottomry
bottoms up!
botulin
botulinus
botulism
boudoir
bouffant
bouffe
bough
boughpot
bought
boughten
bougie
bouillabaisse
bouilli
bouillon
boulder
boulder clay
bole
boulevard
boulevardier
bouleversement
bounce
bounce back
bouncer
bouncing
bouncing Bet
bouncy
bound
bound form
boundary
boundary condition
boundary layer
boundary line
boundary rider
bounded
bounden
bounder
boundless
bounds
bounteous
bountiful
bounty
bouquet
bouquet garni
bourbon
bourdon
bourg
bourgeois
bourgeoisie
bourgeon
bourn
bourne
bouse
boustrophedon
bout
boutique
boutonniere
bovid
bovine
bow
bow compass
bow out
bow saw
bow tie
bow window
bowdlerize
bowel
bowel movement
bower
bowerbird
bowery
bowfin
bowhead
bowie knife
bowing
bowknot
bowl
bowl over
bowlder
bowleg
bowler
bowline
bowling
bowling alley
bowling crease
bowling green
bowls
bowman
bowse
bowshot
braces
brach
brachial
brachiate
brachio-
brachiopod
brachium
brachy-
brachycephalic
brachylogy
brachypterous
brachyuran
bracing
bracken
bracket
bracketing
brackish
bract
bracteate
bracteole
brad
bradawl
brady-
bradyocardia
bradycardia
bradytelic
brae
brag
braggadocio
braggart
braid
braided
braiding
brail
brain
brain coral
brain drain
brain fever
brain stem
brain wave
brainchild
brainless
brainpan
brainsick
brainstorm
brainstorming
brainwash
brainwashing
brainwork
brassy
brat
brattice
brattishing
bratwurst
braunite
bravado
brave
bravery
bravissimo
bravo
bravura
braw
brawl
brawn
brawny
braxy
bray
brayer
braze
brazen
brazen-faced
brazier
brazil
brazilein
brazilin
breach
breach of promise
breach of trust
bread
bread and butter
bread knife
bread mold
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadroot
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
breechcloth
breeches
breeches buoy
breeching
breechloader
breed
breeder
breeder reactor
breeding
breeks
breeze
breeze block
breezeway
breezy
bregma
brei
bremsstrahlung
brent
brethren
breve
brevet
breviary
brevier
brevity
brew
brewage
brewer's yeast
brewery
brewhouse
brewing
brewis
brewmaster
briar
briarroot
briarwood
bribe
bribery
bric-a-brac
brick
brick cheese
brick red
brickbat
brickkiln
bricklayer
bricklaying
brickle
brickwork
bricky
brimstone
brindle
brindled
brine
bring
bring about
bring down
bring forward
bring in
bring off
bring on
bring out
bring over
bring round
bring to
bring up
bringing-up
brink
brinkmanship
briny
brio
brioche
briolette
briony
briquet
briquette
brisance
brise-soleil
brisk
brisket
brisling
bristle
bristletail
bristling
brit
britches
britska
brittle
britzka
broach
broad
broad arrow
broad bean
broad gauge
broad jump
broad jumper
broad seal
broad-faced
broad-leaved
broad-minded
broad-spectrum
broadax
broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadcloth
broaden
broadleaf
broadloom
broadside
broadsword
broaddrail
brocade
brocatel
broccoli
broch
brochette
brochure
brock
brocket
brogan
brogue
broider
broil
broiler
broke
broken
broken heart
broken wind
broken-down
brokenhearted
broker
brokerage
brolly
bromal
bromate
brome grass
bromeosin
bromic
bromic acid
bromide
bromide paper
bromidic
brominate
bromine
bromism
bromo-
bromoform
bronchi
bronchia
bronchial
bronchial pneumonia
bronchial tube
bronchiectasis
bronchiole
bronchitis
broncho-ronchopneumonia
bronchoscope
bronchus
bronco
broncobuster
bronze
brooch
brood
brooder
broody
brook
brook trout
brookite
brooklet
brooklime
brookweed
broom
broomcorn
broomrape
broomstick
bros.
brose
broth
brothel
brother
brother-in-law
brotherhood
brotherly
brougham
brought
brouhaha
brow
browband
browbeat
brown
brown algae
brown bear
brown belt
brown bread
brown coal
brown rat
brown rice
brown rot
brown sauce
brown study
brown sugar
brown thrasher
brown trout
brown-nose
brown-tail moth
browned-off
brownie
browning
brownout
brownstone
browse
brucellosis
brucine
brucite
bruin
bruise
bruiser
bruit
brumal
brumby
brume
brunch
brunch coat
brunet
brunette
brunt
brush
brush aside
brush discharge
brush off
brush turkey
brush up
brush-off
brushwood
brushwork
brusque
brusquerie
brut
brutal
brutality
brutalize
brute
brutify
brutish
bryology
bryony
bryophyte
bryozoan
btl.
btry.
bu.
bub
bubal
bubaline
bubble
bubble and squeak
bubble bath
bubble chamber
bubble dance
bubble gum
bubbler
bubbly
bubo
bubonic plague
bubonocele
buccal
buccaneer
buccinator
buccentaur
buck
buck and wing
buck fever
buck up
buckaroo
buckboard
buckeekn
bucket
bucket seat
bucket shop
buckeye
buckhound
buckish
buckjump
buckjumper
buckle
buckle down
buleldog
bulldozer
bulldozer
bullet
bulletin
bulletin board
bulletproof
bullfight
bullfighter
bullfinch
bullfrog
bullhead
bullheaded
bullhorn
bullion
bullish
bullnose
bullock
bullpen
bullring
bullshit
bullwhip
bully
bully beef
bullyboy
bullyrag
bulrush
bulwark
bum
bum's rush
bumbleliff
bumble
bumblebee
bumbledom
bumbling
bumboat
bumf
bumkin
bummalo
bummer
bump
bump into
bump off
bumper
bumpkin
bumptious
bumpy
bun
bunch
bunch grass
bunch light
bunchy
bunco
buncombe
bund
bundle
bundle of isoglosses
bundle up
bun
bungalow
bunghole
bungle
bunion
bunk
bunk bed
bunker
bunkhouse
bunkmate
bunko
bunkum
bunny
bunny hug
bunt
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bushing
bushman
bushmaster
bushranger
bushtit
bushwa
bushwhack
bushwhacker
bushy
busily
business
business English
business agent
business college
business cycle
business end
business suit
businesslike
businessman
businesswoman
busk
buskin
buskined
busload
busman
busman's holiday
buss
bust
bust-up
bustard
bustee
buster
bustle
busty
busy
busybody
busyness
busywork
but
butacaine
butadiene
butane
butanol
butanone
butch
butcher
butcher knife
butcher paper
butcher shop
butcher's saw
butcher's-broom
butcherbird
butchery
butene
butler
butlery
butt
butt hinge
butt joint
butt plate
butt shaft
butt weld
butte
butter
butter bean
butter muslin
butter up
butter-and-eggs
butterball
butterbur
buttercup
butterfat
butterfingers
butterfish
butterflies
butterfly
butterfly bush
butterfly valve
butterfly weed
buttermilk
butternut
butternut squash
butterscotch
butterwort
buttery
buttock
buttocks
button
button quail
button tree
button up
buttonball
buttonhole
buttonhole stitch
buttonhook
buttons
cabinetmaker
cabinetwork
cable
cable car
cable railway
cable release
cable ship
cable stitch
cablegram
cablet
cableway
cabman
cabob
cabochon
caboodle
caboose
cabotage
cabretta
cabrilla
cabriole
cabriole
cabstand
cacao
cacao butter
cacciatore
cachalot
cache
cachepot
cachet
cachexia
cachinnate
cachou
cachucha
cacique
cackle

caco-  
cacodemon
cacodyl

cacoepy
cacogenics

cacography
cacology
cacomistle

cacophonous
cacophony
cactus
cacuminal
cad
calcium
calcium arsenate
calcium carbide
calcium carbonate
calcium chloride
calcium cyanamide
calcium cyclamate
calcium hydroxide
calcium light
calcium oxide
calcium phosphate
calculable
calculate
calculated
calculated risk
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calibre
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calicle
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 call forth
 call girl
 call in
 call letters
 call loan
 call money
 call number
 call off
 call out
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 call slip
 call up
 call-board
 call-up
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 callant
 callboy
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callus
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calvaria
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camarilla
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came
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camelback
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camellia
camelopard
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cameo ware
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camera lucida
camera obscura
camera tube
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cameraman
cameralengio
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camion
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camise
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camlet
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camp meeting
camp stove
campaign
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campfire
campground
campine
camphor
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camphor ice
camphor tree
camphorate
camphorated oil
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campo santo
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campstool
campus
campy
camshaft
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can buoy
can opener
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canary seed
canary yellow
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cannibalism
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canning
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capita
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capital account
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capital gain
capital gains tax
capital goods
capital levy
capital punishment
capital ship
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capital surplus
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car coat
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carbon disulfide
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carbon monoxide
carbon paper
carbon process
carbon steel
carbon tetrachloride
carbon tissue
carbon-14 dating
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carrier pigeon
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cast down
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cast steel
cast-iron
cast-off
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castaway
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castigate
casting
casting vote
castle
castle in the air
castled
castoff
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castor bean
castor oil
castor-oil plant
castrate
castration complex
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casuistry
casus belli
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cat brier
cat burglar
cat nap
cat rig
cat whisker
cat's cradle
cat's-ear
cat's-eye
cat's-foot
cat's-paw
cat's-tail
cat-and-dog
cat-eyed
cat-o'-mountain
cat-o'-nine-tails
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cathode ray
cathode-ray tube
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cattle plague
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cauliflower ear
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causality
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cedar of Lebanon
cedar waxwing
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celba
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ceilidh
ceiling
ceiling light
ceilometer
celadon
celandine
celebrant
celebrate
celebrated
celebration
celebrity
celeriac
celerity
celery
celery salt
celesta
celestial
celestial equator
celestial globe
celestial guidance
celestial horizon
celestial latitude
celestial longitude
celestial mechanics
celestial navigation
celestial pole
celestial sphere
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census
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centenarian
centenary
centenial
center
center of buoyancy
center of curvature
center of effort
center of flotation
center of gravity
center of mass
center of percussion
center of pressure
center of symmetry
center punch
centerboard
centering
centerpiece
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centiliter
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centipoise
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central angle
central bank
central heating
central nervous system
central sulcus
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ceratoid
cercaria
cercus
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cerebrum
cerecloth
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ceremonious
ceremony
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cernuous
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ceroplastics
cerotic acid
cerotype
cerous
cert.
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certainly
certainty
chalk talk
chalk up
chalkboard
chalkstone
chalky
challah
challenge
challenging
challis
chalone
chalutz
chalybeate
chalybite
cham
chamade
chamber
chamber concert
chamber music
chamber of commerce
chamber orchestra
chamber pot
chambered nautilus
chamberlain
chambermaid
chambers
chambray
chameleon
chamfer
chamfer bit
chamfron
chammy
chamois
chamomile
champ
champac
champaca oil
champagne
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champignon
champion
championship
chance
chance-medley
chancel
chancellery
chancellor
chancellorship
charley horse
charlock
charlotte
charlotte russe
charm
charmed circle
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charmeuse
charming
charnel
charnel house
charpoy
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chart house
chart room
charter
charter colony
charter member
chartered accountant
chartist
chartography
chartreuse
chartulary
charwoman
chary
chase
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chasing
chasm
chassepot
chasseur
chassis
chaste
chaste tree
chasten
chastise
chastity
chastity belt
chasuble
chat
chateau
chatelain
chatelaine
chatoyant
chattel
chattel mortgage
chief justice
chief mate
chief of state
chief petty officer
chief warrant officer
chiefly
chieftain
chiffchaff
chiffon
chiffonier
chifforobe
chigetai
chigger
chignon
chigoe
chilblain
child
child psychology
child's play
childbearing
childbed
childbed fever
childbirth
childe
childhood
childish
childlike
children
chile
chili
chili con carne
chili pepper
chili sauce
chiliad
chiliarch
chiliasm
chill
chiller
chilli
chilly
chilopod
chimaera
chimb
chime
chime in
chimera
chimere
chimerical
chimney
chimney corner
chimney swallow
chimney sweep
chimney swift
chimp
chimpanzee
chin
chin-chin
china
china bark
china clay
chinaberry
chinaware
chincapin
chinch
chinch bug
chinchilla
chinchy
chine
chinfest
chink
chinkapin
chino
chinoiserie
chinook
chinquapin
chintz
chintzy
chip
chip in
chip log
chip shot
chipboard
chipmunk
chipped beef
chipper
chipping sparrow
chippy
chirk
chirm
chiro-
chirography
chiromancy
chiropodist
chiroprody
chiropractic
chiropractor
chiropteran
chirp
chirpy
chirr
chirrup
chirrupy
chirurgeon
chisel
chiseler
chit
chitarrone
chitchat
chitin
chiton
chitter
chitterlings
chivalric
chivalrous
chivalry
chivaree
chive
chivy
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chlamydeous
chlamydospora
chlamys
chlor-
chloral
chloral hydrate
chloramine
chloramphenicol
chlorate
chlordeane
chlorella
chlorenchyma
chloric
chloric acid
chloride
chloride of lime
chlorinate
chlorine
chlorine dioxide
chlorite
chloro-
chloroacetic acid
chlorobenzene
chloroform
chlorohydrin
chlorophyll
chloropicrin
chloroplast
chloroprene
chlorosis
chlorothiazide
chlorous
chlorous acid
chlorpromazine
chlorotetracycline
chm.
choanocyte
chock
chock-a-block
chock-full
chocolate
choice
choir
choir loft
choir school
choirboy
choirmaster
choke
choke coil
choke up
choke-full
chokeberry
chokebore
chokecherry
chokedamp
choker
choking
chole-
cholecalciferol
cholecyst
cholecystectomy
cholecystitis
cholecystotomy
cholent
choler
cholera
cholera morbus
choleric
cholesterol
choli
cholic acid
choline
cholinesterase
cholla
chomp
chon
chondriosome
chondrite
chondro-
chondroma
chondrule
choo-choo
chook
choose
choosy
choosy
chop
chop chop
chop suey
chopfallen
chophouse
chopine
choplogic
chopper
chopping
choppy
chops
chopstick
choragus
choral
chorale
chorale prelude
chord
chordate
chordophone
chore
chore boy
chorea
choreodrama
choreograph
choreographer
choreography
choriamb
choric
choriocarcinoma
chorion
chorister
chorizo
chorography
choroid
choroiditis
chortle
chorus
chorus boy
chorus girl
chose
chosen
chosen people
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chow chow
chow mein
chow-chow
chowder
chrestomathy
chrism
chrismatory
chrisom
christcross
christcross-row
christen
christening
chroma
chromate
chromatic
chromatic aberration
chromatic scale
chromaticity
chromaticity diagram
chromaticness
chromatics
chromatid
chromatin
chromatism
chromato-
chromatogram
chromatograph
chromatography
chromatology
chromatolysis
chromatophore
chrome
chrome alum
chrome green
chrome red
chrome steel
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chromic
chronic acid
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chromogen
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chromomere
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chronic alcoholism
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chrysalid
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chrysarobin
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chrysobery1
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Open Source Used in Open Source Used in Cisco Identity Services Engine 3.2 28565
churning
churr
churrigueresque
chute
chutney
chutzpah
chyack
chyle
chyme
chymotrypsin
ci-devant
ciao
ciborium
cicada
cicala
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cicatrise
cicely
cicero
cicerone
cichlid
cicisbeo
cider
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cigar
cigar store
cigarette
cigarette holder
cigarette lighter
cigarette paper
cigarillo
cilia
ciliary
ciliary body
ciliate
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cilium
cimbalom
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cinchronidine
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cincture
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cinder block
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cinereous
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cinnamic acid
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cinnamon bear
cinnamon stone
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circuit binding
circuit breaker
circuit judge
circuit rider
circuitous
circuitry
circuity
circular
circular function
circular measure
circular mil
circular polarization
circular saw
circular triangle
circularize
circulate
circulating capital
circulating decimal
circulating library
circulating medium
circulation
circum-
circumbent
circumambient
circumambulate
circumbendibus
circumcise
circumcision
circumference
circumferential
circumflex
circumfluent
circumfluous
circumfuse
circumgyration
circumjacent
circumlocution
circumlunar
circumnavigate
circumnutate
circumpolar
circumrotate
circumscissile
circumscribe
circumscription
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circumspect
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circumstance
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circumstantial evidence
circumstantiality
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circumvallate
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councilman

councilor

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counsellor

counselor

counselor-at-law

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day room
day school
day shift
day-care center
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daybook
daybreak
daydream
dayflower
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daylong
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dog fennel
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dog paddle
dog rose
dog sled
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-educator
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-eelpout
-eelworm
-eerie
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-effector
-effects
-effectual
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evil-minded
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evocative

evocator
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eye shadow
eye socket
eye splice
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eye-opening
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faith healer
faith healing
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faithless
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fakery
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fall behind
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fall guy
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fall line
fall off
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fall over
fall through
fall to
fall wind
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falling sickness
falling star
falling-out
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fallow deer
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false cirrus
false dawn
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false front
false horizon
false imprisonment
false keel
false relation
false step
false teeth
false vampire
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falsehood
falsetto
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falsity
faltboat
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familiar spirit
familiarity
familiarize
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family Bible
family circle
family court
family doctor
family man
family name
family planning
family skeleton
family tree
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fast day
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fat cat
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father confessor
father figure
father image
father-in-law
fatherhood
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fictionalize
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fiddle pattern
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fiddle-faddle
fiddlehead
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fiddler crab
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field army
field artillery
field battery
field captain
field corn
field day
field emission
field event
field glass
field glasses
field goal
field guide
field gun
field hockey
field hospital
field magnet
field marshal
field mouse
field of force
field of view
field of vision
field officer
field spaniel
field trial
field trip
field winding
field work
fielder
fieldfare
fieldpiece
fieldsman
fieldstone
fieldwork
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fierce
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fig marigold
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fighter-bomber
fighting chance
fighting cock
fighting fish
fighting top
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figure on
figure out
figure skating
figure-ground
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figured bass
figurehead
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filbert
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filicide
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fireworm
firing
firing line
firing order
firing pin
firing squad
firkin
firm
firmament
firmer chisel
firm
firry
first
first aid
first base
first cause
first class
first cousin
first edition
first estate
first floor
first fruits
first lady
first lieutenant
first mate
first mortgage
first name
first offender
first officer
first person
first post
first principle
first quarter
first reading
first refusal
first sergeant
first string
first water
first-born
first-class
first-day cover
first-degree burn
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fissure of Rolando
fissure of Sylvius
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five-spot
five-star
fivefold
fivepenny
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fix
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fixation
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fixed assets
fixed capital
fixed charge
fixed idea
fixed oil
fixed price
fixed satellite
fixed star
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flag day
flag of convenience
flag of truce
flag officer
flag rank
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flake white
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flat arch
flat knot
flat race
flat roof
flat silver
flat spin
flat tire
flat wash
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flesh and blood
flesh color
flesh fly
flesh wound
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fleshly
fleshpots
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flight arrow
flight deck
flight engineer
flight feather
flight formation
flight path
flight plan
flight recorder
flight simulator
flight strip
flight surgeon
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flip side
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flotsam and jetsam
flounce
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flounder
flour
flour mill
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flout
flow
flow chart
flow sheet
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flower girl
flower head
flower power
flower-de-luce
flowerage
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flowering
flowering maple
flowering moss
flowering plant
flowerless
flowerlike
flowerpot
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flue pipe
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flue-cure
fluency
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flugelhorn
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fluid dram
fluid drive
fluid mechanics
fluid ounce
fluid pressure
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flummery
flummox
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flunkey
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fluorocarbon
fluorometer
fluoroscope
fluoroscopy
fluorosis
fluorspar
flurried
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fluster
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flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
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focal infection
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focal point
focal ratio
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fodder
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foeman
foetation
foeticide
foetid
foetor
foetus
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fog bank
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fog drip
fog light
fog signal
fogbound
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foldboat
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folding door
folding money
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foliation
folic acid
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foliose
folium
folk
folk dance
folk etymology
folk medicine
folk music
folk singer
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folk tale
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folk-rock
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following
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fool
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fool's cap
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fool's errand
g十月
fool's gold
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fool's paradise
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fool's-parsley
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foolery
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foolhardy
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foolish
foolproof
foolscap
foot
foot brake
foot fault
foot rot
foot rule
foot soldier
foot warmer
foot-and-mouth disease
foot-candle
foot-lambert
foot-pound
foot-pound-second
foot-poundal
foot-ton
footage
football
footboard
footboy
footbridge
footcloth
footed
footer
footfall
footgear
foothill
foothold
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footlight
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footling
footlocker
footloose
footman
footmark
footnote
footpace
footpad
footpath
footplate
footprint
footrace
footrest
footrope
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footslog
footsore
footstalk
footstall
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forbidden fruit
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forbore
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forby
force
force majeure
force pump
force-feed
forced
forced landing
forced march
forceful
forcemeat
forceps
forcer
forcible
forcing house
ford
fordo
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fore
fore edge
fore plane
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fore-and-aft
fore-and-aft sail
fore-and-after
fore-topgallant
fore-topgallant mast
fore-topmast
fore-topsail
forearm
forebear
forebode
foreboding
forebrain
forecast
forecastle
foreclose
foreclosure
foreconscious
forecourse
forecourt
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foredeck
foredo
foredoom
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forefend
forefinger
forefoot
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foregone
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forgery
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forget-me-not
forgetful
forging
forgive
forgiven
forgiveness
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forgot
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forint
forjudge
fork
fork out
forked
forked lightning
forklift
forlorn
forlorn hope
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form class
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form genus
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formal cause
formal logic
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forty
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foster child
foster home
foster sister
fosterage
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foul shot
foul up
foul-mouthed
foul-up
foulard
freaky
freckle
freckle-faced
freckly
free
free agent
free alongside ship
free association
free balloon
free city
free coinage
free companion
free company
free energy
free enterprise
free fall
free form
free gold
free hand
free house
free list
free liver
free love
free on board
free port
free radical
free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
free-floating
free-for-all
free-handed
free-hearted
free-living
free-spoken
free-swimming
freeboard
freeboot
freebooter
freeborn
freedman
freedom
freedom fighter
freedom rider
freedwoman
freehand
freehold
freeholder
freelance
freeload
freeloder
freely
freeman
freemartin
freemasonry
freeness
freer
freesia
freestanding
freestone
freestyle
freethinker
freeway
freewheel
freewheeling
freewill
freeze
freeze-dry
freeze-drying
freezer
freezing
freezing mixture
freezing point
freight
freight agent
freight car
freight ton
freight train
freightage
freighter
fremd
fremitus
frenetic
frenulum
frenum
frenzied
frenzy
freq.
frequency
frigate bird
frigging
fright
frighten
frightened
frightful
frightfully
frigid
frigidarium
frigorific
frijol
frill
frilling
fringe
fringe benefit
fringe tree
fringed orchis
fringing reef
frippery
frisette
friseur
frisk
frisket
frisky
frit
frit fly
frith
fritillary
fritter
frivol
frivolity
frivolous
frizette
frizz
frizzle
frizzly
frizzy
fro
frock
frock coat
froe
frog
frog kick
frog spit
frogfish
froggy
froghopper
frogman
ft-lb
ft.
ft.
fth.
fubsy
fuchsia
fuchsin
fucoid
fucus
fuddle
fuddy-duddy
fudge
fuel
fuel cell
fuel injection
fuel oil
fug
fugacious
fugacity
fugal
fugato
fugitive
fugleman
fugue
fulcrum
fulfil
fulfill
fulfillment
fulgent
fulgor
fulgurant
fulgurate
fulgurating
fulguration
fulgurite
fulgurous
fulginous
full
full blood
full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
full-blooded
full-blown
full-bodied
full-faced
full-fledged
full-grown
full-length
full-mouthed
full-rigged
full-scale
full-time
fullback
fuller
fuller's earth
fuller's teasel
fully
fulmar
fulminant
fulminate
fulminating powder
fulmination
fulminic acid
fulminous
fulsome
fulvous
fumaric acid
fumarole
fumatorium
fumble
fume
fumed
fumigant
fumigate
fumigator
fumitory
fumy
fun
funambulist
function
function word
functional
functional calculus
functional disease
functional group
functional illiterate
functionalism
functionary
fund
fundament
fundamental
fundamental particle
fundamental unit
fundamentalism
funded debt
funds
fundus
funeral
funeral director
funeral home
funerary
funereal
funest
fungal
fungi
fungi-
fungible
fungicide
fungiform
fungistat
fungoid
fungosity
fungous
fungus
funicle
funicular
funicular railway
funiculate
funiculus
funk
funk hole
funky
funnel
funnel cloud
funnelform
funny
funny bone
funny paper
funnyman
fur
fur farm
fur seal
fur.
furan
furbelow
furbish
fusilier
fusillade
fusion
fusion bomb
fusionism
fuss
fussbudget
fusspot
fussy
fustanella
fustian
fustic
fustigate
fusty
fut.
futhark
futile
futilitarian
futility
futock
futock plate
futock shroud
future
future life
future perfect
futures
futurism
futuristic
futurity
fuze
fuzee
fuzz
fuzzy
fwd.
fyke
fylfot
fyrd
g
g.
g.u.
g.v.
gab
gabardine
gabble
gabbro
gabby
gabelle
gaberdine
galactagogue
galactic
galactic circle
galactic coordinates
galactic equator
galactic latitude
galactic longitude
galactic plane
galactic poles
galacto-
galactometer
galactopoietic
galactose
galah
galangal
galantine
galanty show
galatea
galaxy
galbanum
gale
galea
galeiform
galena
galenical
galilee
galimatias
galingale
galiot
galipot
gall
gall midge
gall wasp
gallant
gallantry
gallbladder
galleass
galleon
gallery
gallery forest
galley
galley proof
galley slave
galley-west
galify
galliard
gallic
gallic acid
gambeson
gambier
gambit
gamble
gambling house
gamboge
gambol
gambrel
gambrel roof
game
game bird
game fish
game fowl
game point
game room
game theory
game warden
gamecock
gamekeeper
gamelan
gamely
gameness
gamesmanship
gamesome
gamester
gametangium
gamate
gameto-
gametocyte
gametogenesis
gametophore
gametophyte
gamic
gamin
gamine
gaming
gamma
gamma globulin
gamma iron
gamma radiation
gamma ray
gammadion
gammer
gammon
gammy
gamo-
gamogenesis
gamone
gamopetalous
gamophyllous
gamosepalous
gamp
gamut
gamy
gan
gander
gandy dancer
gane

gang
gang plow
gang saw
gangboard
ganger
gangland
gangling
ganglion
gangplank
gangrel
gangrene
gangster
gangue
gangway
gangway ladder
ganister
ganja
ganet
ganof

ganoid
gantlet
gantline
gantry
gaol
gap
gap-toothed
gape
gapes
gapeworm
gapped scale
gar
garage
garb
garbage
garbage can
garbage truck
garbanzo

garble
garboard
garboard strake
garboil
garcon
gardant
garden
garden cress
garden party
garden warbler
gardener
gardenia
gardening
garderobe
garfish
garganey
gargantuan
garget
gargle
gargoyle
garibaldi
garish
garland
garlic
garlicky
garment
garner
garnet
garnierite
gamish
garnishee
garnishment
garniture
garotte
garpike
garret
garrison
garrison cap
garrote
garrotte
garrulity
garrulous
garter
garter belt
garter snake
garter stitch
garth
garvey
gas
gas attack
gas black
gas burner
gas chamber
gas coal
gas constant
gas engine
gas fitter
gas fixture
gas furnace
gas gangrene
gas jet
gas log
gas main
gas mantle
gas mask
gas meter
gas oil
gas plant
gas range
gas station
gas thermometer
gas tube
gas turbine
gas well
gasbag
gasconade
gaselier
gaseous
gash
gasholder
gasiform
gasify
gasket
gaskin
gaslight
gaslit
gasman
gasolier
gasoline
gasometer
gasometry
gasp
gasper
gasser
gassing
gassy
gasteropod
gaunt
gauntlet
gantry
gaur
gauss
gaussmeter
gauze
gauzy
gavage
gave
gavel
gavelkind
gavial
gavotte
gawk
gawky
gay
gaz.
gaze
gazebo
gazehound
gazelle
gazelle hound
gazette
gazetteer
gazpacho
gds.
gean
geanticlinal
geanticline
gear
gearbox
gearing
gearshift
gearwheel
gecko
gee
geek
geese
geest
geezer
gefilte fish
gegenschein
gehlenite
geisha
gel
gel mineral
gelatin
gelatinate
gelatinize
gelatinoid
gelatinous
gelation
geld
gelding
gelid
gelignite
gelsemium
gelt
gem
gemeinschaft
geminate
gemination
gemma
gemmate
gemmation
gemmarious
gemmulation
gemmule
gemology
gemot
gemsbok
gemstone
gen
gen.
genappe
gendarme
gendarmerie
gender
gene
gene flow
gene pool
geneal.
genealogical tree
genealogy
genera
generable
general
general court-martial
general delivery
general election
general headquarters
general hospital
general linguistics
general of the army
general officer
general paralysis
general partner
general post office
general practitioner
general semantics
general sessions
general staff
general store
general strike
general theory of relativity
generalissimo
generalist
generality
generalization
generalize
generally
generalship
generate
generation
generative
generative grammar
generator
generatrix
generic
generosity
generous
genesis
genet
genethlialogy
genetic
genetic code
geneticist
genetics
genova
genial
geniality
genic
geniculate
genie
genii
genip
genipap
genista
genit.
genital
genitalia
genitals
genitive
genitor
genitourinary
genius
genius loci
genoa
genocide
genome
genotype
genre
genro
gens
gent
genteel
genteelism
gentian
gentian blue
gentian violet
gentianaceous
gentianella
gentle
gentilesse
gentilism
gentility
gentle
gentle breeze
gentlefolk
gentleman
gentleman's gentleman
gentleman-at-arms
gentleman-farmer
gentlemanly
gentlemen's agreement
gentleness
gentlewoman
gentry
genu
genuflect
genuflection
genuine
genus
geo-
geocentric
geocentric parallax
geochemistry
geochronology
geod.
geode
geodesic
geodesic dome
geodesy
geodetic
geodynamics
geog.
geognosy
geographer
geographical
geographical mile
geography
geoid
gеol.
geologize
geology
geom.
geomancer
geomancy
geometer
geometric
geometric mean
geometric progression
geometric ratio
geometric series
geometrical optics
geometrician
geometrid
geometrize
geometry
geomorphic
geomorphology
geophagy
geophilous
geophysics
geophyte
geopolitics
geoponic
geoponics
georama
georgic
geosphere
geostatic
geostatics
geostrophic
geosynclinal
geosyncline
geotaxis
geotectonic
geotectonic geology
geothermal
geotropism
ger.
gerah
geraniaceous
geranial
geranium
geratology
gerbil
gerent
gerenuk
gerfalcon
geriatric
geriatrician
geriatrics
ger
ger cell
ger layer
ger plasm
ger theory
ger warfare
german
germander
germane
germanic
germanium
germanous
germen
gericide
germinal
germinal vesicle
germinant
germinate
germinative
gerontoge- 
gerontocracy
gerontology
geronymander
gerund
gerundive
gesellschaft
gesso
gest
gestalt
gestate
gestation
gesticulate
gesticulation
gesticulative
gesticulatory
gesture
gesundheit
get
get about
get across
get ahead
get along
get around
get at
get away
get back
get by
get down
get in
get into
get off
get on
get over
get round
get through
get up
get-together
get-up-and-go
getaway
getter
getup
geum
gewgaw
gey
geyser
geyserite
gharry
ghastly
ghat
ghazi
ghee
gherkin
ghetto
ghost
ghost dance
ghost moth
ghost town
ghost word
ghostly
ghostwrite
ghoul
gill net
gill slit
gillie
gills
gillyflower
gilt
gilt-edged
gilthead
gimbals
gimcrack
gimcrackery
gimel
gimlet
gimlet eye
gimmal
gimmick
gimp
gin
gin and tonic
gin rickey
gin rummy
gin sling
ginger
ginger ale
ginger beer
ginger group
ginger snap
ginger wine
gingerbread
gingerbread tree
gingerly
gingersnap
gingery
gingham
gin

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  28850
girdle-tailed lizard
girdler
girl
girl Friday
girlfriend
girhood
girie
girlish
giro
girosol
girt
girth
gisarme
gismo
gist
git
gittern
give
give away
give in
give off
give out
give over
give up
give-and-take
giveaway
given
given name
gizmo
gizzard
gl.
glabella
glabrate
glabrescent
glabrous
glace
glacial
glacial acetic acid
glacial epoch
glacial period
glacialist
glaciage
glacier
glaciology
glacies
glad
glad eye
glad hand
glad rags
gladden
glade
gladiate
gladiator
gladiatorial
gladiolus
gladsome
glaikit
glair
glairy
glaive
glamorize
glamorous
glamour
glance
gland
glanders
glandular
glandular fever
glandule
glandulous
glans
glare
glaring
glary
glass
glass cutter
glass harmonica
glass jaw
glass snake
glass wool
glassblowing
glasses
glassful
glasshouse
glassine
glassman
glassware
glasswork
glassworker
glassworks
glasswort
glassy
glaucous
glaucous
glaucous
glaucous gull
glaze
glazed
glazer
glazier
glazing
gleam
glean
gleaning
gleanings
glebe
glede
glee
glee club
gleeful
gleeman
gleesome
gleet
glen
glengarry
glenoid
gley
glia
gliadin
glib
glide
glide bomb
glide-bomb
glider
gliding joint
glim
glimmer
glimmering
glimpse
glint
glioma
glissade
glissando
glisten
glister
-glitter
-glitter ice
-glittery
-gloam
-gloaming
-gloat
-glob
-global
glossopharyngeal nerve
glosotony
glossy
glottal
glottal stop
glottalized
glottic
glottis
glottocronology
glotology
glove
glove compartment
glover
glow
glow discharge
glow lamp
glower
glowing
glowworm
gloxinia
gloze
glt.
glucinum
gluconeogenesis
glucoprotein
glucose
glucoside
glucosuria
glue
gluey
glum
glume
glut
glutamate
glutamic acid
glutamine
glutathione
gluteal
glutelin
gluten
gluten bread
glutenous
gluteus
gluteus maximus
glutinous
glutton
gluttonize
gluttonous
go
go about
go against
go ahead
go along
go around
go at
go away
go back
go by
go down
go for
go forth
go in
go into
go off
go on
go out
go over
go slow
go through
go to
go together
go under
go up
go with
go-ahead
go-between
go-by
go-cart
go-devil
go-getter
go-go dancer
goa
goad
goal
goal line
goal post
goalie
goalkeeper
goaltender
goat
goat antelope
goat's-rue
goatee
goatfish
goatherd
goatish
goldilocks
goldsmith
goldsmith beetle
goldstone
goldthorn
golem
golf
golf bag
golf ball
golf club
golf course
golfer
goliard
golly
gomboon
gomphosis
gomuti
gon-
gonad
gonadotropin
gondola
gondola car
gondolier
gone
gone away
goneness
goner
gonfalon
gonfalonier
gonfanon
gong
gong buoy
gonidium
goniometer
gonio
egra
gonna
gono-
gonococcus
gonocyte
gonophore
gonorrhrea
goo
goobher
good
good Joe
good Samaritan
good afternoon
good behavior
good cheer
good day
good egg
good evening
good faith
good fellow
good humor
good looks
good morning
good nature
good night
good offices
good sort
good turn
good use
good-bye
good-fellowship
good-for-nothing
good-humored
good-looking
good-natured
good-oh
good-sized
good-tempered
goodbye
goodish
goodly
goodman
goodness
goods
goods and chattels
goodwife
goodwill
goody
goody-goody
gooe
goof
goofball
goofy
googly
googol
googolplex
gook
go
gooney bird
goop
goosander
goose
grandson
grandstand
granduncle
grange
granger
grangerize
grani-
granite
graniteware
granitite
granivorous
granny
granny knot
grano-
granophyre
grant
grant-in-aid
grantee
grantor
granular
granulate
granulated sugar
granulation
granulation tissue
granule
granulite
granulocyte
granuloma
granulose
grape
grape fern
grape hyacinth
grape sugar
grapefruit
grapery
grapeshot
grapevine
graph
graph paper
grapheme
graphemics
graphic
graphic arts
graphics
graphite
graphitize
graphology
graphomotor
grapnel
grappa
grapple
grappler plant
grappling
grappling iron
graptolite
grasp
grasping
grass
grass cloth
grass court
grass hockey
grass roots
grass snake
grass tree
grass widow
grass-green
grass-of-Parnassus
grasshopper
grassland
grassplot
grassquit
grassy
grate
grateful
grater
graticule
gratification
gratify
gratifying
gratin
grating
gratis
gratitude
gratuitous
gratuity
gratulant
gratulate
gratulation
graupel
gravamen
gave
graveclothes
gravedigger
gravel
gravel-blind
gravelly
graven
given image
graver
glavestone
graveyard
gravid
gravimeter
gravimetric
gravimetric analysis
graving dock
gravitate
gravitation
gravitational constant
gravitational field
gravitative
graviton
gravity
gravity cell
gravity dam
gravity fault
gravity knife
gravity wind
gravure
gravy
gravy boat
gravy train
gray
gray eminence
gray fox
gray market
gray matter
gray wolf
gray-headed
grayback
graybeard
grayish
grayling
graze
grazier
grazing
grease
grease cup
grease gun
grease monkey
greaseball
greasepaint
greaser
greasewood

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  28868
green mold
green monkey
green onion
green pepper
green plover
green soap
green tea
green thumb
green turtle
green vitriol
green woodpecker
green-eyed
greenback
greenbelt
greenbottle fly
greenbrier
greenery
greenfinch
 greengage
greengrocer
greengrocery
greenhead
greenheart
greenhorn
greenhouse
greenhouse effect
greening
greenish
greenlet
greenling
greenness
greenockite
greenroom
greensand
greenshank
greensickness
greenstick fracture
greenstone
greensward
greenwood
greet
greeting
gregale
gregarine
gregarious
greige
greisen
gremial
gremlin
grenade
grenadier
grenadine
gressorial
grew
grey
greyback
greybeard
greyhen
greyhound
greylag
greywacke
gribble
grid
grid bias
grid variation
giddle
gridlecake
gride
gridiron
grief
grief-stricken
grievance
grieve
grieved
grievous
griffe
griffin
gリフォ
grig
grigri
grill
grillage
grille
grilled
grillroom
grillwork
grilse
grim
grimace
grimalkin
grime
grimy
grin
grind
grindelia
grinder
grindery
grinding wheel
grindstone
griego
grip
gripe
grippe
gripper
gripping
gripsack
gris-gris
grisaille
griseanvin
griseous
grisette
grisken
grisly
grison
grist
gristle
gristly
gristmill
grit
grihth
grits
gritty
grievation
grievet
grizzle
grizzled
grizzly
gizzly bear
gro.
groan
groat
groats
grocer
groceries
grocery
groceryman
grog
groggery
groggy
grogram
grogshop
groin
grommet
gromwell
groom
ground stroke
ground swell
ground water
ground wave
ground zero
ground-controlled approach
groundage
grounder
groundhog
groundless
groundling
groundmass
groundnut
groundsel
groundsheet
groundsill
groundspeed
groundwork
group
group insurance
group marriage
group practice
group therapy
grouper
groupie
grouping
grouse
grount
groutry
grove
grovel
grow
grow into
grow out of
grow up
grower
growing
growing pains
growl
growler
grown
grown-up
grownup
growth
growth hormone
growth ring
growth stock
groyne
grozing iron
grub
grub hoe
grubby
grubstake
grudge
grudging
gruel
grueling
gruelling
gruesome
gruff
grugru
grum
grumble
grume
grummet
grumous
grumpy
grunion
grunt
grunter
gryphon
gt.
gtd.
guacharo
guacin
guaco
guaiacol
guaiacum
guan
guanabana
guanaco
guanase
guanidine
guanine
guano
guar.
guarani
guarantee
guaranteed annual wage
guaranteed bond
guaranteed stock
guarantor
guaranty
guard
guard cell
guard hair
guard ring
guard ship
guardant
guarded
guardhouse
guardian
guardian angel
guardianship
guardrail
guardroom
guardsman
guava
guayule
gubernatorial
guberniya
guck
guddle
gudgeon
gudgeon pin
guelder-rose
guenon
guerdon
guereza
guerrilla
guess
guess-rope
guess-warp
guesstimate
guesswork
guest
guest rope
guesthouse
guff
guffaw
guggle
guib
guidance
guide
guide dog
guide rope
guideboard
guidebook
guided missile
guided missile cruiser
guided wave
guideline
guidepost
guidon
guild
guild socialism
guilder
guildhall
guildsman
guile
guileful
guileless
guillemot
guilloche
guillotine
guilt
guiltless
guilty
gumpe
guinea
guinea fowl
guinea grains
guinea grass
guinea hen
guinea pig
guipure
guise
guitar
guitarfish
guitarist
gula
gulch
gulden
gules
gulf
gulfweed
gull
gullet
gullible
gully
gulosity
gulp
gum
ammoniac
arabic
benzoin
dammar
elastic
elemi
plant
resin
up
gumbo
gumboil
gumbotil
gumdrop
gumma
gummite
gummnosis
gummous
gummy
 gumption
gumshoe
gumwood
gun
gun carriage
gun deck
gun dog
gun for
gun metal
gun moll
gun room
gun tackle
gun-shy
gunboat
guncotton
gunfight
gunfire
gunflint
gung ho
gunk
gunlock
gunmaker
gunman
gunnel
gunner
gunnery
gunning
gunny
gunnysack
gunpaper
gunplay
gunpoint
gunpowder
gunrunning
gunsel
gunshot
gunslinger
gunsmith
gunstock
gyrostatic
gyrostatic compass
gyrostatics
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ha'penny
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habiliment
habilitate
habit
habit-forming
habitual
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hack hammer
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haematoblast
haematocele
haematorckal
haematogenesis
haematogenous
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haematoma
haematopoiesis
haematosis
haematothermal
haematoxylin
haematoxylon
haematozoon
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haemo-
haemocyte
haemoglobin
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haemolysin
haemolysis
haemophilia
haemophilic
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hairdresser
hairless
hairline
hairpiece
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hairsplitter
hairsplitting
hairspring
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hairstyle
hairtail
hairworm
hairy
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hake
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hal-
halation
halberd
halcyon
hale
haler
half
half blood
half boot
half brother
half cadence
half crown
half deck
half dollar
half eagle
half frame
half gainer
half hitch
half hose
half note
half sister
half step
half time
half volley
half-and-half
half-assed
half-baked
half-blood
half-blooded
half-bound
half-breed
half-caste
half-cock
half-cocked
half-hardy
half-hour
half-length
half-life
half-light
half-mast
half-moon
half-pint
half-price
half-seas over
half-slip
half-sole
half-timbered
half-track
half-truth
half-wit
half-witted
halibut
halibut-liver oil
halide
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hall
hallah
hallelujah
halliard
hallmark
hallo
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hallow
hallowed
hallucinate
hallucination
hallucinatory
hallucinogen
hallucinosis
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hallway
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hamburger
hame
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hammer
hammer and sickle
hammer and tongs
hammer beam
hammer out
hammered
hammerhead
hammering
hammerless
hammerlock
hammertoe
hammock
hammy
hamper
hamster
hamstring
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hance
hand
hand down
hand drill
hand glass
hand grenade
hand in
hand on
hand organ
hand over
hand truck
hand's-breadth
hand-knit
hand-me-down
hand-off
hand-to-hand
hand-to-mouth
handbag
handball
handbarrow
handbill
handbook
handbreadth
handcar
handcart
handclap
handclasp
handcraft
handcrafted
handcuff
handed
handedness
handfast
handfasting
handful
handgrip
handgun
handhold
handicap
handicapped
handicapper
handicraft
handicraftsman
handily
handiness
handiwork
handkerchief
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handlebar
handlebar moustache
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handling
handmade
handmaid
handmaiden
handout
handpick
handrail
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handsaw
handsel
handset
handshake
handshaker
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handspike
handspring
handstand
handwork
handwoven
handwriting
handy
handyman
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hang about
hang back
hang in
hang on
hang out
hang together
hang up
hang-up
hangar
hangbird
hangdog
hanger
hanger-on
hanging
hanging buttress
hanging post
hanging valley
hanging wall
hangman
hangnail
hangout
hangover
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hankering
hanky
hanky-panky
hansel
hansom
hanuman
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hapazard
hapazardly
hapless
haplodge
haplo-
haplography
haploid
haplology
haplosis
haply
happen
happening
happenstance
happily
happiness
happy
happy hunting ground
happy-go-lucky
hapten
hara-kiri
harangue
harass
harassed
harbinger
harbor
harbor seal
harborage
harbour
harbourage
hard
hard and fast
hard candy
hard cash
hard cider
hard coal
hard copy
hard core
hard court
hard goods
hard hat
hard labor
hard landing
hard lines
hard palate
hard paste
hard rock
hard rubber
hard sauce
hard sell
hard wheat
hard-and-fast
hard-bitten
hard-boiled
hard-core
hard-favored
hard-featured
hard-nosed
hard-pressed
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-spun
hardback
hardball
hardboard
harden
hardened
hardener
hardening
hardening of the arteries
hardhack
hardheaded
hardhearted
hardihood
hardily
hardiness
hardly
hardness
hardpan
hards
hardship
hardtack
hardtop
hardware
hardwood
hardworking
hardy
hare
hare and hounds
harebell
harebrained
harelip
harem
haricot
hark
hark back
harken
harl
harlequin
harlequin bug
harlequin duck
harlequin opal
harlequinade
harlot
harlotry
harm
harmattan
harmful
harmless
harmonic
harmonic analysis
harmonic mean
harmonic minor scale
harmonic motion
harmonic progression
harmonic series
harmonic tone
harmonica
harmonicon
harmonics
harmonious
harmonist
harmonium
harmonize
harmony
harmotome
harness
harness cask
harness hitch
harness race
harnessed antelope
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harper
harping
harpist
harpoon
harpoon gun
harpichord
harpy
harpy eagle
harquebus
harquebusier
harridan
harrier
harrow
harrumph
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harsh
harslet
hart
hart's-tongue
hartal
hartebeest
hartshorn
harum-scarum
haruspex
haruspicy
harvest
harvest home
harvest mite
harvest moon
harvest mouse
harvester
harvestman
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hash house
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hasty pudding
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hat trick
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hatchery
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hatchet face
hatchet job
hatchet man
hatching
hatchment
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hateful
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haughty
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haul off
haul up
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haunch bone
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haustellum
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haut monde
hautbois
hautboy
haute couture
haute cuisine
hauteur
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have at
have on
have-not
havelock
haven
haven't
haver
haversack
haversine
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hawfinch
hawk
hawk moth
hawk owl
hawk's-beard
hawk's-eye
hawk-eyed
hawkbill
hawker
hawking
hawksbill turtle
hawkshaw
hawkweed
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hawse bag
hawsehole
hawsepiece
hawsepipe
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hawser bend
hawser-laid
hawthorn
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hay fever
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hayfork
hayloft
haymaker
haymow
hayrack
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hayseed
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hayward
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headquarters
headrace
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headreach
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headroom
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heal-all
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health insurance
health physics
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hearing aid
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hearsay
hearsay evidence
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heat wave
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heater
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heath cock
heath grass
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heating element
heating pad
heatstroke
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heave down
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heaven
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heavenly
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heaves
heavier-than-air
heavily
heaviness
heaving-line bend
heavy
heavy artillery
heavy bomber
heavy cream
heavy cruiser
heavy earth
heavy hydrogen
heavy spar
heavy water
heavy-armed
heavy-duty
heavy-footed
heavy-handed
heavy-hearted
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hellbender
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hellfire
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hemp nettle
hemp tree
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hen party
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henbane
henbit
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henchman
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heterochromatic
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heteropolar
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hexanoic acid
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hierophant
hifalutin
higgle
higgledy-piggledy
higgler
high
high and mighty
high blood pressure
high camp
high comedy
high command
high commissioner
high day
high explosive
high fashion
high fidelity
high frequency
high hat
high jinks
high jump
high jumper
high noon
high place
high point
high priest
high relief
high school
high schooler
high sea
high seas
high sign
high society
high spirits
high spot
high table
high tea
high tide
high time
high treason
high water
high wire
high-angle fire
high-class
high-colored
high-flown
high-grade
high-handed
high-hat
high-key
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high-minded
high-muck-a-muck
high-octane
high-pitched
high-powered
high-pressure
high-priced
high-sounding
high-speed
high-speed steel
high-spirited
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high-strung
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high-test
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high-wrought
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highbinder
highborn
highboy
highbred
highbrow
highchair
higher arithmetic
higher criticism
higher education
higher mathematics
higher-up
highfalutin
highflier
highjack
highland
highlight
highline
highly
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hightail
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highway robbery
highwayman
hijack
hijacker
hike
hilarious
hilarity
hill
hill myna
hill station
hillbilly
hillbilly music
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hillside
hilltop
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hindsight
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hinterland
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hip bath
hip joint
hip roof
hip-huggers
hipbone
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hippie
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hippocampus
hippocras
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hippopotamus
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hipster
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histoplasmosis
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historical linguistics
historical materialism
historical method
historical novel
historical present
historical school
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homiletic
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homily
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homing pigeon
hominid
hominoid
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honewort
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honey buzzard
honey guide
honey locust
honey mesquite
honey plant
honey-sweet
honeybee
honeybunch
honeycomb
honeydew
honeydew melon
honeyed
honeymoon
honeysucker
honeysuckle
honeysuckle ornament
hong
honied
honk
honky
honky-tonk
honor
honor point
honor roll
honorable
honorarium
honorary
honorific
honoris causa
honour
honourable
hoo
hooch
hood
hooded
hooded crow
hooded seal
hoodlum
hoodman-blind
hoodoo
hoodwink
hooey
hoof
hoof-and-mouth disease
hoofbeat
hoofbound
hoofed
hoofer
hook
hook and eye
hook-nosed
hookah
hooked
hooked rug
hooker
hooknose
hookup
hookworm
hooky
hooligan
hoop
hoop pine
hoop skirt
hoop snake
hooper
hoopla
hoopoe
hooray
hoosegow
hoot
hoot owl
hootchy-kootchy
hootenanny
hooves
hop
hop clover
hop-o'-my-thumb
hope
hope chest
hopeful
hopefully
hopeless
hophead
hoplite
hopper
hopping
hopple
hopscotch
hoptoad
hor.
hora
horal
horary
horde
hordein
horehound
horizon
horizontal
horizontal bar
horizontal stabilizer
horizontal union
horne
hormonal
hormone
horn
horn in
horn of plenty
horn silver
horn-mad
hornbeam
hornbill
hornblende
hornbook
horned
horned lizard
horned owl
horned poppy
horned pout
horned screamer
horned toad
horned viper
hornet
hornet's nest
hornpipe
hornstone
hornswoggle
horntail
hornwort
horny
horol.
horologue
horologist
horologium
horology
horoscope
horoscopy
horotelic
horrendous
horrible
horribly
horrid
horrific
horrified
horrify
horripilate
horripilation
horror
horror-struck
hors concours
hors d'oeuvre
hors de combat
horse
horse around
horse bean
horse brass
horse chestnut
horse gentian
horse latitudes
horse mackerel
horse marine
horse nettle
horse opera
horse pistol
horse sense
horse trader
horse-faced
horseback
horsecar
horseflesh
horsefly
horsehair
horsehide
horselaugh
horseleech
horseman
horsemanship
horsemint
horseplay
horsepower
horsepower-hour
horseradish
horseshit
horseshoe
horseshoe arch
horseshoe crab
horseshoe magnet
horseshoes
horsetail
horseweed
horsewhip
horsewoman
horsey
horst
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hort.
hortative
hortatory
horticulture
hortus siccus
hosanna
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hosp.
hospice
hospitalable
hospital
hospital bed
hospital corner
hospital ship
hospitality
hospitalization
hospitalization insurance
hospitalize
hospitium
hospodar
host
hostage
hostel
hostel school
hostelry
hostess
hostile
hostility
hostler
hot
hot air
hot buttered rum
hot cake
hot cockles
hot cross bun
hot dog
hot lick
hot line
hot metal
hot money
hot pants
hot pepper
hot plate
hot potato
hot rod
hot seat
hot spot
hot spring
hot stuff
hot war
hot water
hot-air balloon
hot-blooded
hot-cathode tube
hot-press
hot-tempered
hot-water bag
hot-water bottle
hotbed
hotbox
hotchpot
hotchpotch
hotel
hotfoot
hothead
hotheaded
hothouse
hotshot
hotspur
hough
hound
hound's-tongue
hounding
houppelande
hour
hour angle
hour circle
hour hand
hourglass
houri
hourly
house
house agent
house arrest
house detective
house finch
house flag
house martin
house mouse
house of God
house of assignation
house of cards
house of correction
house of detention
house of ill repute
house of prayer
house of prostitution
house of worship
house organ
house party
house physician
house sparrow
house trailer
house-raising
houseboat
housebound
houseboy
housebreak
housebreaker
housebreaking
housebroken
housecarl
houseclean
housecoat
housefather
housefly
household
household gods
household troops
householder
housekeeper
housekeeping
housel
houseleek
houseless
houselights
houseline
housemaid
housemaid's knee
houseman
housemaster
housemother
houseterm
housetop
housewares
housewarming
housewife
housewifely
housewifery
housework
housey-housey
housing
houstonia
hove
hovel
hover
hovercraft
how
how-do-you-do
howbeit
howdah
howdy
howe'er
however
howitzer
hawl
howler
howlet
howling
howsoever
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hub
hubble-bubble
hubbub
hubby
hubris
huckaback
huckleberry
buckster
huddle
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hue and cry
hued
huff
huffish
huffy
hug
hug-me-tight
huge
hugely
hugger-mugger
huh
hula
hula skirt
hula-hula
hulk
hulking
hulky
hull
hullabaloo
hullo
hum
human
human being
human interest
human nature
human rights
humane
humane society
humanism
humanist
humanitarian
humanitarianism
humanity
humanize
humankind
humanly
humanoid
humble
humble pie
humblebee
humbug
humbuggery
humdinger
humdrum
humectant
humeral
humeral veil
humerus
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hydrogen bomb
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hydrogen chloride
hydrogen cyanide
hydrogen fluoride
hydrogen iodide
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in articulo mortis
in camera
in esse
in extenso
in extremis
in flagrante delicto
in limine
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in loco parentis
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in perpetuum
in personam
in petto
in posse
in propria persona
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internal rhyme
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international law
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international pitch
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jewelry
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jiffy
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jolly jumper
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jonquil
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joss stick
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joy ride
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jurisprudence
jurisprudent
jurist
juristic
juristic act
juror
jury
jury box
jury list
jury-rig
jury-rigged
juryman
jurywoman
jus
jus canonicum
jus civile
jus divinum
jus gentium
jus naturale
jus primae noctis
jus sanguinis
jus soli
jussive
just
just intonation
just noticeable difference
juste-milieu
justice
justice of the peace
justiceship
justiciable
karyogamy
karyokinesis
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karyoplasm
karyosome
karyotin
karyotype
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kasher
kashmir
kat
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katabatic
katabolism
katakana
katharsis
katydid
katzenjammer
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keen
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keep
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keynote
keynote address
keystone
keystroke
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kick off
kick pleat
kick turn
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dk gloves
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kidney stone
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kilderkin
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kill-joy
killdeer
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killer whale
killer-diller
killick
killifish
killing
killing frost
killjoy
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kinesthesia
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kinetic energy
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king crab
king post
king salmon
king snake
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king's evil
king's highway
king's ransom
king's shilling
king-of-arms
king-size
kingbird
kingbolt
kingcraft
kingcup
kingdom
kingdom come
kingfish
kingfisher
kinghood
kinglet
kingly
kingmaker
kingpin
kingship
kingwood
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kinkajou
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kinsfolk
kinship
kinsman
kinswoman
kiosk
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kirkman
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kismet
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kiss of death
kiss of peace
kissable
kisser
kissing bug
kissing gate
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kit bag
kit fox
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kitchen cabinet
kitchen garden
kitchen midden
kitchen police
kitchen sink
kitchener
kitchenette
kitchenmaid
kitchenware
kite
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kith and kin
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kitsch
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kittenish
kitiwake
kittle
kitty
kiva
knight bachelor
knight banneret
knight of the road
knight-errant
knight-errantry
knighthead
knighthood
knightly
knish
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knitted
knitting
knitting needle
knitwear
knives
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knobby
knobkerrie
knock
knock about
knock back
knock down
knock off
knock up
knock-knee
knockabout
knocker
knockout
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knockwurst
knoll
knop
knot
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knothole
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knotting
knotty
knotweed
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know
know-all
know-how
know-it-all
know-nothing
knowable
knowing
knowledge
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labdanum
labefaction
label
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labia minora
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labor union
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ladder tournament
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ladies’ man
lading
ladino
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lady fern
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lady's man
lady's-slipper
lady's-smock
lady's-thumb
lady's-tresses
lady-in-waiting
lady-killer
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ladybug
ladyfinger
ladylike
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ladyship
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lamprey
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lampyrid
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lance rest
lance sergeant
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lancinate
land
land agent
land bank
land crab
land grant
land measure
land mine
land of Nod
land of milk and honey
land office
land rail
land reform
land tax
land-grabber
land-office business
land-poor
landau
landaulet
landed
landfall
landgrave
landgraviate
landgravine
landholder
landing
landing craft
landing field
landing gear
landing net
landing stage
landing strip
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landluper
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landlubber
landman
landmark
landmass
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landscape gardening
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landsman
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lapse rate
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lapsus linguae
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larceny
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lardon
lardy
lares and penates
large
large calorie
large intestine
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large-scale
largely
largemouth bass
largess
larghetto
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lase
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lash
lashing
lass
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lassitude
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last name
last out
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last quarter
last rites
last straw
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last-minute
lasting
lastly
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latchstring
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lawgiver
lawless
lawmaker
lawman
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lawn sleeves
lawn tennis
lawrencium
lawsuit
lawyer
lax
laxation
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laxity
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lay analyst
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lay away
lay brother
lay down
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lay into
lay off
lay on
lay out
lay over
lay reader
lay sister
lay to
lay up
lay-by
layer
layer cake
layette
laying on of hands
layman
layoff
layout
laywoman
lazar
lazaretto
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lazuli
lazulite
lazurite
lazy
lazy Susan
lazy daisy stitch
lazy tongs
lazybones
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lead acetate
lead arsenate
lead colic
lead glass
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lead monoxide
lead off
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lead pencil
lead poisoning
lead screw
lead tetraethyl
lead time
lead-in
lead-pipe cinch
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leadership
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leading edge
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leading light
leading man
leading question
leading strings
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leadwort
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leaf fat
leaf insect
leaf miner
leaf mold
leaf monkey
leaf spot
leaf spring
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leaflet
leafstalk
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leant
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leaseholder
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legal medicine
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leopard moth
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leucopenia
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leucotomy
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leukocyte
leukoderma
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levitate
levitation
levity
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levorotatory
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lex non scripta
lex scripta
lex talionis
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lexicologist
lexicology
lexicon
lexicostatistics
lexigraphy
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libellee
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libelous
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liberal
liberal arts
liberal education
liberalism
liberality
liberalize
liberate
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liberticide
libertinage
libertine
libertinism
liberty
liberty cap
libidinous
libido
libra
librarian
librarianship
library
library binding
library edition
library paste
library science
librate
libration
libratory
librettist
libretto
libriform
lice
licence
license
license plate
licensee
licentiate
licentious
lich gate
lichee
lichen
lichenin
lichenology
lichii
licit
lick
lickerish
lickety-split
licking
lickspittle
licorice
lictor
lid
lidless
lido
lie
lie detector
lie down
lie in
lie to
lie up
lie-abed
lied
lief
liege
liegeman
lien
lientery
lierne
lieu
lieutenancy
lieutenant
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
life
life belt
life buoy
life cycle
life expectancy
life history
life instinct
life jacket
life mask
life net
life preserver
life raft
life science
life span
life table
life vest
life-and-death
life-giving
life-or-death
life-size
lifeblood
lifeboat
lifeguard
lifeless
lighthearted
lighthouse
lighting
lightish
lightless
lightly
lightness
lightning
lightning arrester
lightning bug
lightning conductor
lightning rod
lightproof
lights
lights out
lightship
lightsome
lightweight
lignealoes
ligneous
ligni-
ligniform
lignify
lignin
lignite
lignocellulose
lignum vitae
ligroin
ligula
ligulate
ligule
ligure
likable
like
like-minded
likelihood
likely
liken
likeness
likewise
liking
likker
lilac
liliaceous
liit
lily
lily iron
lily of the valley
lily pad
lily-livered
lily-trotter
lily-white
lima bean
limacine
limb
limbate
limber
limber hole
limber up
limbic
limbo
limbus
lime
lime burner
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limekiln
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limerick
limes
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limit point
limit switch
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limitation
limitative
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limited company
limited edition
limited liability
limited monarchy
limited payment insurance
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limulus
limy
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linchpin
linctus
lindane
linden
lindy
line
line drawing
line drive
line engraving
line gauge
line of battle
line of credit
line of fire
line of force
line of position
line of scrimmage
line of sight
line of vision
line squall
line storm
line-of-battle ship
line-up
lineage
lineal
lineament
linear
linear accelerator
linear algebra
linear measure
linear perspective
linear programming
lineararity
lineate
lineation
linebacker
linebreeding
lineman
linen
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linen paper
lineolate
liner
lines
linesman
lineup
ling
ling.
lingam
lingcod
linger
lingerie
lingo
lingonberry
lingua
lingua franca
lingual
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linguistic geography
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linguistics
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linkman
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linkwork
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linsang
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liquidity
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liquor
liquor up
liquorice
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lister
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literacy
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literal-minded
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literally
literary
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lithophyte
lithopone
lithosphere
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lithotrity
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litmus paper
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litre
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little finger
little hours
little man
little office
little owl
little people
little slam
little theater
littlest
littoral
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liturgy
lituus
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live
live load
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live steam
live together
live wire
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livelong
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liven
liver
liver extract
liver fluke
liver sausage
liveried
liverish
liverwort
liverwurst
livery
livery stable
liveryman
lives
livestock
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living death
living picture
living room
living wage
livraison
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lizard
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load line
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loading coil
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loan shark
loan translation
loan word
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locus sigilli
locus standi
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log line
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loner
lonesome
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long account
long arm
long cross
long distance
long dozen
long face
long haul
long horse
long house
long hundredweight
long johns
long jump
long measure
long moss
long pig
long primer
long shot
long suit
long tom
long ton
long vacation
long wave
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long-limbed
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long-range
long-sighted
long-standing
long-sufferance
long-suffering
long-term
long-term bond
long-winded
longan
longanimity
longboat
longbow
longcloth
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longeron
longevity
longevoius
longhair
longhand
longicorn
longing
longish
longitude
longitudinal
longitudinal wave
longleaf pine
longs
longship
longshore
longshoreman
longsome
longspur
longueur
longways
longwise
loo
looby
look
look after
look back
look forward to
look on
look over
look through
look up
look-in
look-see
look-through
looker
looker-on
looking glass
lookout
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loomming
loon
looney
loony
loony bin
loop
loop knot
looper
lophole
loopy
loose
loose end
loose smut
loose-jointed
loose-leaf
loose-limbed
loose-tongued
loosen
loosestrife
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loot
lop
lop-eared
lope
lophobranch
lophophore
loppy
lopsided
loq.
loquacious
loquacity
loquat
loquitur
loran
lord
lord-in-waiting
lording
lordling
lordly
lordosis
lords-and-ladies
lordship
lore
lorgnette
lorgnon
lorica
loricate
lorikeet
lorimer
loris
lorn
lorry
lory
lose
lose out
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loser
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loss
loss leader
loss ratio
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lost cause
lost tribes
lost-wax process
lot
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lotion
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lottery
lotto
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lowermost
lowest common denominator
lowest common multiple
lowland
lowlife
lowly
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loxodrome
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loxodromics
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loyalist
loyalty
lozenge
lozengy
luau
lubber
lubber line
lubber's hole
lubberly
lubra
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lubricant
lubricate
lubricator
lubricious
lubricity
lubricous
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luckily
luckless
lucky
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lucre
lucubrate
lucubration
luculent
ludicrous
lumpy jaw
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lunacy
lunar
lunar caustic
lunar eclipse
lunar module
lunar month
lunar year
lunarian
lunate
lunatic
lunatic asylum
lunatic fringe
lunation
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luncheon
luncheon meat
luncheonette
lunchroom
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lunkhead
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lupus erythematosus
lupus vulgaris
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lustrum
lusty
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luteinizing hormone
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luteolin
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luxurious
luxury
lv.
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lycanthrope
lycanthropy
lyceum
lych gate
lychnis
lycopodium
lyddite
lye
lying
lying-in
lyme grass
lymph
lymph cell
lymph gland
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lymphatic
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lymphocyte
lymphocytosis
lymphoid
lymphoma
lymphosarcoma
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lynch law
lynching
lynx
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lyonnaise
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lyophilize
lyophobic
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lyrebird
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lyrist
lys-
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lysin
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lysozyme
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lythraceous
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m.p.
m.s.l.
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ma’am
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macaroon
macaw
maccaboy
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machicolation
machinate
machination
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machine bolt
machine gun
machine language
machine pistol
machine screw
machine shop
machine tool
machine-gun
machinery
machinist
machismo
machree
machzor
macintosh
mackerel
mackerel sky
mackinaw
mackintosh
mackle
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maestro di cappella
maffick
mag
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mage
magenta
maggot
maggoty
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magic carpet
magic lantern
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magically
magician
magisterial
magistry
magistracy
magistral
magistrate
magma
magna cum laude
magnanimity
magnanimous
magnate
magnesia
magnesite
magnesium
magnesium oxide
magnet
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magnetic axis
magnetic bearing
magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
magnetic flux density
magnetic force
magnetic induction
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic pickup
magnetic pole
magnetic potential
magnetic quantum number
magnetic storm
magnetic tape
magnetic variation
magnetics
magnetism
magnetite
magnetize
magneto
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magnetochemistry
magnetoconduction
magnetograph
magnetohydrodynamics
magnetometer
magnetomotive
magnetomotive force
magneton
magnetostriction
magnetron
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magnification
magnificence
magnificent
magnifico
magnify
magnifying glass
magniloquent
magnitude
magnolia
magnoliaceous
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magnum opus
magnus hitch
magpie
magus
maharaja
maharajah
maharanee
maharani
mahatma
maladapted
maladjusted
maladjustment
maladminister
maladroit
malady
malaguena
malaise
malamute
malapert
malapropism
malapropos
malar
malaria
malarkey
malcontent
male
maleate
maledict
malediction
malefaction
malefactor
malefic
maleficence
maleficent
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malemute
malevolent
malfeasance
malformation
malfunction
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malignant
malignity
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maligner
malison
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malleable iron
mallee
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mallet
malleus
mallow
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malmsey
malnourished
malnutrition
malocclusion
malodororous
malonic acid
malonylurea
malpighiaceous
malposition
malpractice
malt
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malt liquor
maltase
malted milk
maltha
maltose
maltreat
malvaceous
malvasia
malversation
malvoisie
mam
mama
mama's boy
mamba
mambo
mamelon
mamey
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mammal
mammalian
mammalogy
mammary
mammary gland
mammet
mammiferous
mammilla
mammillary
mammillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
manage
manageable
managed currency
management
manager
managerial
managing
managing editor
manakin
manana
manas
manatee
manchineel
manciple
mandamus
mandarin
mandate
mandatory
mandible
mandibular
mandola
mandolin
mandorla
mandragora
mandrake
mandrel
mandrill
manducate
mane
manes
maneuver
manful
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manganese steel
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mangonel
mangosteen
mangrove
manhandle
manhole
manhood
manhood suffrage
manhunt
mania
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manicure
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manifest
manifestation
manifestative
manifesto
manifold
manikin
manilla
manille
maniple
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manipulate
manipulator
mankind
manlike
manly
manna
manned
mannequin
manner
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mannerism
mannerless
mannerly
manners
mannikin
mannish
mannose
manoeuvre
manometer
manor
manor house
manpower
manque
manrope
mansard
manse
manservant
mansion
manslaughter
manslayer
manstopper
mansuetude
manta
manteau
mantel
mantelet
mantelletta
mantellone
mantelpiece
manteltree
mantic
mantilla
mantis
mantis shrimp
mantissa
mantle
mantle rock
mantling
mantra
mantua
manual
manual training
manubrium
manuf.
manufactory
manufacture
manufacturer
manumission
manumit
manure
manuscript
many
many-sided
manyply
manzanilla
map
map out
map projection
maple
maple sugar
maple syrup
mapping
maquette
maquis
mar
mar.
mara
marabou
marabout
maraca
marasca
maraschino
maraschino cherry
marasmus
marathon
maraud
marauding
maravedi
marble
marble cake
marbleize
marbles
marbling
marc
marcasite
marcel
marcescent
march
march-past
marcher
marchesa
marchese
marching orders
marchioness
marchland
marchpane
marconigraph
mare
mare liberum
mare nostrum
mare's-nest
mare's-tail
maremma
marg.
margaric acid
margarine
margarite
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marginal
marginalia
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margravine
marguerite
mariage de convenance
marigold
marigraph
marijuana
marimba
marina
marinade
marinara
marinate
marine
marine engineer
marine insurance
mariner
mariner's compass
marionette
marish
marital
maritime
marjoram
mark
markdown
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market garden
market gardening
market order
market price
market research
marsh elder
marsh fever
marsh gas
marsh harrier
marsh hawk
marsh hen
marsh mallow
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marshland
marshmallow
marshy
marsipobranch
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martellato
marten
martensite
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martial law
martin
martinet
martingale
martingale boom
martini
martlet
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martyrdom
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martyry
marvel
marvel-of-Peru
marvellous
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mascle
mascon
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masculine rhyme
maser
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mashie
masjid
mask
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masker
masking tape
masochism
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masonry
masque
masquer
masquerade
mass
mass media
mass meeting
mass noun
mass number
mass spectrograph
mass spectrometer
mass spectrocope
mass-produce
massacre
massage
massasauga
masseter
masseur
masseuse
massicot
massif
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massotherapy
massy
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mastaba
mastectomy
master
master hand
master key
master of ceremonies
master of foxhounds
master sergeant
master stroke
master's degree
master-at-arms
masterful
masterly
mastermind
masterpiece
mastership
mastersinger
masterstroke
masterwork
mastery
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mat
matador
match
matchboard
matchbook
matchbox
matchless
matchlock
matchmaker
matchmark
matchwood
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matelote
mater dolorosa
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meetinghouse
meetly
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megadeath
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megawatt
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megohm
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meld
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melic
melilot
melinite
meliorate
melioration
meliorism
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melodramatize
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melon
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meltage
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melting pot
melton
meltwater
mem
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member
membership
membrane
membrane bone
membranophone
membranous
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memento mori
memo
memoir
memoirs
memorabilia
memorable
memorandum
memorial
memorial park
memorialist
memorialize
memoried
memorize
memory
memory bank
memory span
memory trace
men
men's room
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menagerie
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mendacity
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mendicity
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mental retardation
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mercaptopurine
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mercerize
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merchant navy
merchant ship
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mercuric oxide
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mercurous chloride
mercury
mercury chloride
mercury fulminate
mercury-vapor lamp
mercy
mercy killing
mercy seat
mere
merely
merengue
meretricious
merganser
merge
merger
meridian
meridian circle
meridional
meringue
merino
meristem
meristic
merit
merit system
merited
meritocracy
meritorious
merits
merle
merlin
merlon
mermaid
mermaid's purse
merman
mero-
meroblastic
merocrine
merozoite
merriment
merry
merry dancers
merry-andrew
merry-go-round
merrymaker
merrymaking
merrythought
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mesa
mesarch
mescal
mescaline
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meseems
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mesenchyme
mesentery
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mesh knot
meshuga
meshwork
mesial
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mesitylene
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mesmerize
mesnalty
mesne
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mesonephros
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mesosphere
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metalworking
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metaphor
metaphosphate
metaphrase
metaphrast
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metaphysical
metaphysics
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metaplasm
metaprotein
metapsychology
metasomatism
metastasis
metastasize
metatarsal
metatarsus
metatherian
metathesis
metathesize
metaxylem
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methodology
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methyl alcohol
methyl bromide
methyl chloride
methyl ethyl ketone
methyl isobutyl ketone
methyl orange
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metralgia
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metric ton
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mezza voce
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microbiology
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micrography
microgroove
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micrometer screw
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military law
military march
military pace
military police
military school
military science
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milk sickness
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milk-livered
milk-white
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millepore
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mindless
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mine detector
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mineral kingdom
mineral oil
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mineral spring
mineral tar
mineral water
mineral wax
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mineraloid
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miniature
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minister resident
ministerial
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minor premise
minor scale
minor term
minor triad
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minority group
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minister
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mint julep
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mintage
minuend
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minus
minus sign
minuscule
minute
minute gun
minute hand
minute steak
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miosis
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miracle
miracle play
miraculous
mirador
mirage
mire
mirepoix
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mirror
mirror image
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mirthful
mirthless
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misadventure
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misanthropy
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misapprehension
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misbehavior
misper
misbeliever
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miscellany
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misconception
misconduct
misconstruction
misconstrue
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misvalue
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miter box
miterwort
mithter
mithridate
mithridatism
miticide
mitigate
mitis
mitochondrion
mitosis
mitrailleuse
mobocracy
mobster
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moccasin flower
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mock
mock moon
mock orange
mock sun
mock turtle soup
mock-heroic
mock-up
mockery
mockingbird
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modal auxiliary
modality
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modeling
moderate
moderate breeze
moderate gale
moderation
moderato
moderator
modern
modern dance
modern jazz
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modernity
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modesty
modicum
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modulus
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modulus of rigidity
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modus vivendi
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moldy
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mole cricket
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molecular beam
molecular biology
molecular distillation
molecular film
molecular formula
molecular volume
molecular weight
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morning coat
morning dress
morning glory
morning loan
morning sickness
morning star
morning watch
morning-glory
mornings
morocco
moron
morose
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morpheme
morphia
morphine
morphinism
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morphogenesis
morphology
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morphosis
morris
morris dance
morrow
morse
morsel
mort
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mortal sin
mortality
mortality table
mortar
mortarboard
mortgage
mortgage bond
mortgagee
mortgagor
mortician
mortification
mortify
mortise
mortise lock
mortmain
mortuary
morula
mosaic
mosaic gold
mosasaur
moschate
mosey
mosque
mosquito
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
moss
moss pink
moss rose
moss-grown
mossback
mossbunker
mosstrooper
mossy
most
mostly
mot
mot juste
mote
motel
motet
moth
moth-eaten
mothball
mother
mother country
mother of vinegar
mother superior
mother tongue
mother wit
mother-in-law
mother-of-pearl
motherhood
mothering
motherland
motherless
motherly
motherwort
mothy
motif
motile
motion
motion picture
motion sickness
motion study
motionless
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motivation
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motivity
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motor court
motor scooter
motor truck
motor vehicle
motor vessel
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motorcade
motorcar
motorcycle
motoring
motorist
motorize
motorman
motorway
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motu proprio
moue
mouflon
moujik
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moulder
moulding
mouldy
moulin
moult
mound
mount
mountain
mountain ash
mountain cat
mountain chain
mountain goat
mountain laurel
mountain lion
mountain range
mountain sheep
mountain sickness
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mountaineering
mountainous
mountainside
mountaintop
mountebank
mounting
mourn
mourner
mourners' bench
mournful
mourning
mourning band
mourning cloak
mourning dove
mouse
mouse deer
mouse-ear
mousebird
mouser
mousetail
mousetrap
mousey
moussaka
mousse
mousseline
mousseline de laine
mousseline de soie
moustache
mousy
mouth
mouth organ
mouth-watering
mouthful
mouthpart
mouthpiece
mouthwash
mouthy
mouton
movable
movable-do system
move
move in
move out
movement
mover
movie
movie camera
movie house
moving
moving picture
moving staircase
mow
mow down
mown
moxa
moxie
mozzarella
mozzetta
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mu meson
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muchness
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muckrake
muckraker
muckworm
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mucoprotein
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mud dauber
mud flat
mud hen
mud puppy
mud turtle
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mudpack
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mudskipper
mudslinger
mudslinging
mudstone
muenster
muezzin
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mufti
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muggins
muggy
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mujik
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mule deer
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muscae volitantes
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muscle
muscle sense
muscle-bound
muscovado
muscular
muscular dystrophy
musculature
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museology
musette
musette bag
museum
museum piece
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mushroom
mushroom anchor
mushroom cloud
mushy
music
music box
music drama
music hall
music of the spheres
music paper
music roll
music stand
musical
musical box
musical chairs
musical comedy
musicale
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musicianship
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musk deer
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mutton chop
muttonchops
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mutual
mutual fund
mutual inductance
mutual induction
mutual insurance
mutual savings bank
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myasthenia
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mycobacterium
mycol.
mycology
mycorrhiza
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myel-
myelencephalon
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myiasis
mylohyoid
mylonite
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myoglobin
myology
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myopic
myosin
myosotis
myotome
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myrmecology
myrmecophagous
myrmidon
myrobolan
myrrh
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myrtle
myself
mystagogue
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mystery
mystery play
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mystique
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mythologize
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nacelle
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nacreous
nacreous cloud
nadir
nae
naevus
nag
nagana
nagging
nagual
naiad
naif
nail
nail down
nail file
nail polish
nail set
nail-biting
nailbrush
nailhead
nainsook
naissant
naive
naivete
naked
naker
namby-pamby
name
name day
name-calling
name-dropper
name-dropping
nameless
namely
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namesake
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nancy
nankeen
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napkin
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narration
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natal
natality
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natatorium
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nates
nathless
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national debt
national forest
national income
national park
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nationalist
nationality
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native-born
nativism
nativity
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natter
natterjack
natty
natural
natural child
natural childbirth
natural death
natural gas
natural gender
natural history
natural language
natural law
natural number
natural philosophy
natural realism
natural resources
natural right
natural rubber
natural science
natural selection
natural theology
natural virtues
naturalism
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naturalize
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nature
nature study
nature worship
naturism
nauphraphy
naught
naughty
naumachia
nauplius
nausea
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nebula
nebular hypothesis
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nebulose
nebulosity
nebulous
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necessaries
necessarily
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necessitarianism
necessitate
necessitous
necessity
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neckcloth
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necking
necklace
neckline
neckpiece
necktie
neckwear
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nectar
nectareous
nectarine
nectariat
nectarous
nee
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needful
neediness
needle
needle valve
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neuropsychiatry
neurosis
neurosurgery
nerotic
neuroticism
neurotomy
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neut.
neuter
neutral
neutral spirits
neutralism
neutrality
neutralization
neutralize
neutretto
neutrino
neutron
neutron star
neutrophil
never
never-never
nevermore
nevertheless
nevus
new
new broom
new criticism
new look
new moon
new wave
new-fashioned
new-mint
new-model
new-mown
newborn
newcomer
newel
newel post
newfangled
newfashioned
newish
newly
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nicotinism
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nide
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nidifugous
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nidus
niece
niello
nifty
niggard
niggardly
nigger
niggerhead
niggle
niggling
nigh
night
night blindness
night clothes
night crawler
night heron
night latch
night letter
night light
night owl
night raven
night robe
night school
night shift
night soil
night watch
night watchman
nightcap
nightclub
nightdress
nightfall
nightgown
nighthawk
nightie
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nightjar
nightlong
nightly
nightmare
nightrider
nightshade
nightshirt
nightspot
nightstick
nighttime
nightwalker
nightwear
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nigritude
nigrosine
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nihil obstat
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nihility
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nil desperandum
nilgai
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nimble
nimbostratus
nimbus
nimity
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nine
nine days' wonder
ninebark
ninefold
ninepins
nineteen
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ninetieth
ninety
ninny
ninnyhammer
ninon
ninth
ninth chord
niobic
niobium
niobous
nip
nip and tuck
nipa
nitty
nitty-gritty
nitwit
nival
niveous
nix
no
no-account
no-good
no-man's-land
no-par
no-show
nob
nobby
nobelium
nobility
noble
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noble-minded
nobleman
noblesse
noblesse oblige
noblewoman
nobody
nock
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noctambulous
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noctilucent
noctule
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nocturne
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nodose
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nodule
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old chap
old country
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old maid
old man
old master
old rose
old school
old school tie
old soldier
old squaw
old stager
old style
old wives' tale
old woman
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parochial church council
Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2

parochial school
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parrot fever
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parson bird
parson's nose
parsonage
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part music
part of speech
part song
part-time
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partial derivative
partial eclipse
partial pressure
partial tone
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partitive
partizan
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partly
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partridge
partridgeberry
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parturifacient
parturition
party
party line
party man
party politics
party wall
party whip
party-column ballot
parulis
parve
parvenu
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pas
pas de deux
pas seul
paschal candle
paschal flower
paschal lamb
paschal letter
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pasqueflower
pasquill
pasquinade
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passion fruit
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passionless
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passkey
passport
passus
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peace offensive
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peace officer
peace pipe
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peacetime
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peacock blue
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peafowl
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peanut
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peanut oil
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pearl gray
pearl millet
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peau de soie
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pebble
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pectase
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physical examination
physical geography
physical jerks
physical medicine
physical optics
physical science
physical therapy
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piccolo
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pinto
pinto bean
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pinwheel
pinwork
pinworm
pinxit
piny
pion
pioneer
pious
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pip-squeak
pipage
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pipe clay
pipe cleaner
pipe dream
pipe of peace
pipe organ
pipe up
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piston rod
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pit viper
pita
pitanga
pitapat
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pitch accent
pitch circle
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pitch into
pitch pine
pitch pipe
pitch ratio
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pitch-dark
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pitcher
pitcher plant
pitchfork
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pitchman
pitchstone
pitchy
piteous
pitfall
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plastic surgery
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play on words
play out
play up
play with
play-off
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playbill
playbook
playboy
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player piano
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playgoer
playground
playhouse
playing card
playing field
playlet
playmate
playpen
playreader
playroom
playsuit
plaything
playtime
playwright
playwriting
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plug-ugly
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pochard
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pocket battleship
pocket billiards
pocket borough
pocket gopher
pocket money
pocket mouse
pocket veto
pocketbook
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pockmark
pocky
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pocosin
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poddly
podesta
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poesy
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poet laureate
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poetess
poetic justice
poetic license
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pogrom
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poikilothermic
poilu
poinciana
poinsettia
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point d'appui
point duty
point group
point lace
point of articulation
point of departure
point of honor
point of order
point of view
point out
point source
point system
point up
point-blank
point-device
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pointsman
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pollster
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polo shirt
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pool
pool hall
pool table
poolroom
poon
poop
poop deck
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poor boy
poor law
poorhouse
poorly
pop
pop art
pop off
pop-up
popcorn
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pope's nose
popedom
popery
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popgun
popinjay
popish
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poplin
popliteal
porpoise
porridge
porringer
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port of call
port of entry
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portage
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porte cochere
porte-cochere
porte-monnaie
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portent
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porterage
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portfire
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portico
portiere
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portly
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portmanteau word
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portraiture
portray
portulaca
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positive electricity
positive feedback
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possibility
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post chaise
post exchange
post hoc
post horn
post house
post meridiem
post office
post road
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post-bellum
post-free
post-horse
post-obit
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postern
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postwar
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pourparler
pourpoint
poussette
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poverty
poverty-stricken
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powder blue
powder burn
powder charge
powder flask
powder horn
powder keg
powder metallurgy
powder mill
powder monkey
powder puff
powder room
powder snow
powdered milk
powdery
power
power amplifier
power brake
power dive
power drill
power line
power loading
power of appointment
power of attorney
power pack
power plant
power politics
power saw
power series
power station
power steering
power structure
power supply
power-dive
powerboat
powered
powerful
powerhouse
powerless
powwow
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prayer book
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prayer rug
prayer shawl
prayer wheel
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praying mantis
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preachment
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preamplifier
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preferential shop
preferential voting
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preferred stock
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present arms
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present perfect
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president-elect
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presidentship
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press association
press conference
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pretty-pretty
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preventive
preview
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previous question
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prevision
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price list
price support
price tag
price war
price-cutting
price-fixing
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prick song
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pricking
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prickly
prickly heat
prickly pear
prickly poppy
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prima donna
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primary cell
primary color
primary election
primary school
primary stress
primary syphilis
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prime cost
prime meridian
prime minister
prime mover
prime number
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prince consort
prince regent
prince's-feather
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princess royal
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principal focus
principal parts
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print shop
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procrastinate
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proctoscope
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procurrence
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procurator
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profanity
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professoriate
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proficiency
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profit and loss
profit sharing
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profligate
proficient
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proper motion
proper noun
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propjet
propjet engine
propman
propolis
proponent
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provenience
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proving ground
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provisory
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provocation
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provost court
provost guard
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psyche
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psychological moment
psychological warfare
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public charge
public debt
public defender
public domain
public enemy
public house
public law
public opinion
public prosecutor
public relations
public school
public servant
public service
public utility
public works
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punch bowl
punch line
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punchball
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punching bag
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quantum statistics
quantum theory
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quarter horse
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quarter round
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quarter-phase
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queen bee
queen dowager
queen mother
queen olive
queen post
queen regent
queen regnant
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queen's evidence
queen's shilling
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question mark
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quetzal
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qui vive
quibble
quibbling
quiche
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quick assets
quick bread
quick fire
quick grass
quick march
quick time
quick trick
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quick-freeze
quick-tempered
quick-witted
quicken
quickie
quicklime
quickly
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quicksilver
quickstep
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quietude
quietus
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quittance
quittor
quiver
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rabbininism
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rabbit ears
rabbit fever
rabbit punch
rabbitfish
rabbitry
rabble
rabble-rouser
rabble-rousing
rabblement
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rabies
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raccoon dog
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race horse
race riot
racecourse
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raceway
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racialism
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rack railway
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radarman
radarscope
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radiancy
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radiant flux
radiant heat
radiant heating
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radiation sickness
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radical axis
radical sign
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radicel
radices
radicle
radiculitis
radii
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radio astronomy
radio beacon
radio beam
radio compass
radio control
radio direction finder
radio frequency
radio knife
radio range beacon
radio source
radio spectrum
radio star
radio station
radio telescope
radio tube
radio wave
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radioactivate
radioactive
radioactive decay
radioactive series
radioactivity
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radiobroadcast
radiocarbon
radiocarbon dating
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radiochemistry
radiocommunication
radioelement
radiogram
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radioisotope
radiolarian
radiolocation
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radiolucent
radioluminescence
radioman
radiometeorograph
radiometer
radiomicrometer
radionuclide
radiopaque
radiophone
radiograph
radioscope
radioscopy
radiosensitive
radiosonde
radiosurgery
radiotelegram
radiotelegraph
radiotelegraphy
radiotelephone
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radiotherapy
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radiothorium
radiotransparent
radish
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radium emanation
radium therapy
radius
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radix
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raffinose
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rag doll
rag paper
rag-and-bone man
ragamuffin
rage
ragged
ragged robin
raggedy
raggle-taggle
ragi
raglan
ragman
ragout
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ragtag and bobtail
ragtime
ragweed
ragwort
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raid
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railhead
railing
raillery
railroad
railroader
railway
raiment
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rain dance
rain gauge
rain or shine
rain tree
rain water
rainband
rainbow
rainbow trout
raincoat
raindrop
rainfall
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range finder
range light
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ratchet
ratchet wheel
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rate-of-climb indicator
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rattlepate
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rattlesnake
rattlesnake fern
rattlesnake plantain
rattletrap
rattling
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red pepper
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red squirrel
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science fiction
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scopophilia
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scorch
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scoreboard
scorecard
scorekeeper
scoria
scorify
scorn
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scorpaenid
scorpaenoid
scorper
scorpion
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scot-free
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scotia
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scoutmaster
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scratch pad
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scrawny
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screamer
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screech owl
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sealed book
sealed orders
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seaplane
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search party
search warrant
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searchlight
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seaside
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seat belt
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second childhood
second class
second cousin
second estate
second fiddle
second floor
second growth
second hand
second lieutenant
second mate
second mortgage
second nature
second person
second reading
second sight
second string
second thought
second wind
second-best
second-class
second-degree burn
second-guess
second-rate
secondary
secondary cell
secondary color
secondary emission
secondary school
secondary sex characteristic
secondary stress
secondary syphilis
secondhand
secondly
secrecy
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secret agent
secret partner
secret police
secret service
secret society
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secretary bird
secretary of state
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self-abasement
self-abnegation
self-absorbed
self-absorption
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self-addressed
self-aggrandizement
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self-annihilation
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self-assurance
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self-devotion
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self-effacing
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self-expression
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self-fulfillment
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self-induction
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self-knowledge
self-liquidating
self-loading
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self-mastery
self-mortification
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self-operating
self-opinionated
self-pity
self-pollination
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self-possession
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self-propulsion
self-realization
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self-reliance
self-reliant
self-renunciation
self-reproach
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self-restraint
self-revealing
self-righteous
self-rising
self-sacrifice
self-satisfaction
self-satisfied
self-sealing
self-seeker
self-seeking
self-service
self-sown
self-starter
self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
self-winding
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serum hepatitis
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service book
service ceiling
service medal
service station
service stripe
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serviceberry
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servitude
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setting-up exercises
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settle down
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settings
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setup
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seven deadly sins
seven seas
seven-up
seven-year itch
sevenfold
seventeen
sextain
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sextet
sextillion
sextodecimo
sexton
sextuple
sextuple time
sextuplet
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sexual
sexual intercourse
sexual reproduction
sexual selection
sexuality
sexy
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shabby
shabby-genteel
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shackle
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shade tree
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shadow play
shadowgraph
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shaft
shafting
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shagbark
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shagreen
sheathbill
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sheathing
sheave
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shebang
shebeen
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sheep sorrel
sheep tick
sheep's eyes
sheep's fescue
sheep-dip
sheepcote
sheepdog
sheepfold
sheepherder
sheepish
sheepshank
sheepshead
sheepshearing
sheepskin
sheepwalk
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sheer strake
sheerlegs
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sheet anchor
sheet bend
sheet glass
sheet lightning
sheet metal
sheet music
sheet-fed
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sheikdom
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shekel
shelduck
shelf
shelf ice
shelf life
shell
shell bean
shell game
shell jacket
shell out
shell shock
shellac
shellacking
shellback
shellbark
shelled
shellfire
shellfish
shellproof
shelter
shelter deck
shelter tent
shelty
shelf
shelves
shelving
shend
shepherd
shepherd dog
shepherd's pie
shepherd's-purse
sherbet
sherd
sherif
sheriff
sherry
sheugh
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shibboleth
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shield
shield bug
shield fern
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shift key
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shifty
shigella
shikari
shiksa
shill
shillelagh
shilling
shilling mark
shilly-shally
shimmer
shimmery
shimmy
shin
shinbone
shindig
shine
shiner
shingle
shingles
shingly
shinleaf
shinny
shiny
ship
ship biscuit
ship chandler
ship money
ship of the line
ship of war
ship's boat
ship's boy
ship's husband
ship's papers
ship-rigged
shipboard
shipentine
shipload
shipman
shipmaster
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shipment
shipowner
shippen
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shipping ton
shipshape
shipway
shipworm
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shire horse
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shirtmaker
shirtwaist
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shock
shock absorber
shock therapy
shock troops
shock wave
shocker
shockheaded
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shockproof
shod
shoddy
shoe
shoe leather
shoebill
shoebblack
shoelace
shoemaker
shoer
shoeshine
shoestring
shofar
shogun
shogunate
shone
shoo
shoo-in
shook
shool
shoon
shoot
shoot down
shoot out
shoot up
shooter
shooting box
shooting brake
shooting gallery
shooting iron
shooting script
shooting star
shooting stick
shooting war
shop
shop assistant
shop steward
shophar
shopkeeper
shoplifter
shopper
shopping
shopping center
shopwindow
shopworn
shoran
shore
shore bird
shore leave
shore patrol
shoreless
shoreline
shorange
shoring
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short
short account
short circuit
short covering
short division
short hundredweight
short interest
short list
short shrift
short story
short subject
short ton
short-change
short-circuit
short-cut
short-lived
short-sighted
short-tempered
short-term
short-winded
shortage
shortbread
shortcake
shortcoming
shortcut
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shortfall
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shortwave
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shot glass
shot hole
shot put
shot tower
shot-putter
shote
shotgun
shotgun wedding
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shoulder bag
shoulder blade
shoulder pad
shoulder patch
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shoulder weapon
shouldn't
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shout down
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shove off
shovel
shovel hat
shovelboard
shoveler
shovelhead
shovelnose
show
show bill
show business
show girl
show of hands
show off
show up
show-off
show-through
showboat
showbread
showcase
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showpiece
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shrink
shrinkage
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shroud knot
shroud-laid
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shudder
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shuffle
shuffleboard
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shunt-wound
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shutdown
shutout
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shuttlecock
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sidereal month
sidereal time
sidereal year
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siderostat
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sideshow
sideslip
sidesman
sidestep
sidestroke
sideswipe
sidetrack
sidewalk
sideward
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sidewheel
sidewinder
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sienna
sierra
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sieve tube
sift
siftings
sig.
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sight bill
sight draft
sight-read
sight-seeing
sighted
sightless
sightly
sigil
siglos
sigma
sigmatism
sigmoid
sigmoid flexure
sign
sign away
sign in
sign language
sign manual
sign of the cross
sign on
sign up
signal
signal box
signal corps
signal-to-noise ratio
signalize
signally
signalman
signalment
signatory
signature
signature tune
signboard
signet
signet ring
significance
significancy
significant
signification
significative
significs
signify
signor
signora
signore
signorina
signorino
signory
signpost
sika
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silage
silence
silencer
silent
silent discharge
silent majority
silent partner
silesia
silhouette
silica
silica gel
silica glass
silicate
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silicon
silicon carbide
silicone
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siliculose
siliqua
silique
silk
silk hat
silk oak
silk-screen printing
silk-stocking
silkaline
silken
silkweed
silkworm
silky
sill
sillabub
sillimanite
silly
silly season
silo
siloxane
silt
siltstone
silurid
silva
silvan
silver
silver age
silver bell
silver birch
silver bromide
silver certificate
silver chloride
silver fizz
silver foil
silver fox
silver frost
silver iodide
silver leaf
silver lining
silver maple
silver nitrate
silver plate
silver screen
silver standard
silver thaw
silver-eye
silver-plate
silver-tongued
silverfish
silvern
silverpoint
siverside
silversmith
silverware
silverweed
silvery
silviculture
sima
simar
simarouba
simaroubaceous
simba
simian
similar
similarity
simile
similitude
simitar
simmer
simnel cake
simon-pure
simoniac
simonize
simony
simoom
simp
simpatico
simper
simple
simple chancre
simple harmonic motion
simple interest
simple machine
simple microscope
simple sentence
simple time
simple-hearted
simple-minded
singleton
simplex
simplicidentate
simplicity
simplify
simplism
simplistic
simply
simulacrum
simulant
simulate
simulated
simulation
simulator
simulcast
simultaneous
simultaneous equations
sin
sinapism
since
sincere
sincerity
sinciput
sine
sine curve
sine die
sine prole
sine qua non
sine wave
sinecure
sinew
sinewy
sinfonia
sinfonietta
sinful
sing
sing out
sing.
singe
singer
singing bird
single
single bond
single combat
single entry
single file
single quotes
single rhyme
single tax
single-action
single-breasted
single-cross
single-foot
single-handed
single-handedly
single-hearted
single-lens reflex
single-minded
single-phase
singleness
singles
singlestick
singlet
singleton
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singly
singsong
singular
singularity
singularize
singultus
sinh
sinister
sinistrad
sinistral
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sink in
sinkage
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sir-reverence
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sirrocco
sirrah
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sis
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sissified
sissy
sister
sister-in-law
sisterhood
sisterly
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sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
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sitology
sitter
sitting
sitting duck
sitting room
situate
situated
situation
situation comedy
situla
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sitz bath
sitzmark
six
six-eight time
six-footer
six-gun
six-pack
sixfold
sixpence
sixpenny
sixteen
sixteenmo
sixteenth
sixteenth note
sixth
sixth chord
sixth sense
sixtieth
sixty
sixty-four
sixty-fourth
sixty-fourth note
sixty-nine
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size up
sizeable
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sizzle
sizzler
sjambok
skald
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skateboard
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skeleton key
skellum
skelp
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skeptic
skeptical
skepticism
skerrick
skerry
sketch
sketchbook
sketchy
skew
skewback
skewbald
skewer
skewness
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ski jump
ski lift
ski pants
ski tow
ski troops
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skid fin
skid row
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skidway
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skiffle
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skijoring
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skill-less
skilled
skillet
skillful
skilling
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skim milk
skimmer
skimmia
skimp
skimpy
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stock dove
stock exchange
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supercharge
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superclass
supercolumnar
superconductivity
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superhigh frequency
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superpatriot
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thermonuclear bomb
thermonuclear reaction
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thermotaxis
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third class
third degree
third dimension
third estate
third eyelid
third man
third mate
third party
third person
third rail
third reading
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throne room
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through street
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tit for tat
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titania
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titanic acid
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titanium
titanium dioxide
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title deed
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title page
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to wit
to-and-fro
to-be

to-do

to-name

toad

toad-in-the-hole

toadeater

toadfish

toadflax

toadstool

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tobacco

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toffee-nosed

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toga virilis

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togetherness
	
toggery

toggle

toggle joint

toggle switch

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tooth powder
tooth shell
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toothwort
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tootsy
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top banana
top boot
top dog
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top hat
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top out
top-drawer
top-dress
top-heavy
top-hole
top-level
top-notch
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torchon lace
torchwood
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tormentor
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torpedo
torpedo boat
torpedo tube
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torpedoman
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totality
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totalizer
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tout ensemble
tout le monde
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traffic light
traffic pattern
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trailer truck
trailing arbutus
trailing edge
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trainbearer
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trainee
trainer
training
training school
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trainman
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traitor
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tramp steamer
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transit circle
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transmundane
transmutation
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transpadane
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tree creeper
tree farm
tree fern
tree frog
tree heath
tree kangaroo
tree of heaven
tree of knowledge of good and evil
tree of life
tree shrew
tree sparrow
tree surgery
tree swallow
tree toad
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treehopper
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treenware	ref
trefoil	rehala	rehalose
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tremulous
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trench knife
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trencherman
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troostite
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tropical year
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trotting race
truth-function
truth-value
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try square
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trypanosome
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trypsin
tryptophan
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tu quoque
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tunnel vault
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turboprop
turbosupercharger
turbot
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turntable
turpentine
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turret clock
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tutorial	tutorial system
tutti
tutti-frutti	utty
tutu	tuxedo
tuyere	twaddle	twain
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twattle
twayblade	weak	weed	weedy
tweeny
tweet
tweeter
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two-bit
two-by-four
two-color
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two-edged
two-faced
two-four time
two-handed
two-part time
two-party system
two-phase
two-piece
two-ply
two-seater
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two-spot
two-step
two-time
two-tone
two-up
two-way
two-wheeler
twofold	wopenence
twopenny
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type metal
type species
type specimen
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typcase
typcast
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typography
typology
typewriter

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ultravirus
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unfurl
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ungodly
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QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk
(make sure you have at two (4) megabytes of free space on
your hard disk for each disk of Moby product).
Change your current directory ('CD') to that folder,
type BUILD and press (enter).
The files that are extracted may be viewed and edited by
any capable text-editor, such as Microsoft Word 5.x.

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MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.

256,772 compound words
Over 256,700 hyphenated or other entries containing more than one word as well as all capitalized words and acronyms. Phrases were considered 'common' if they or variations of them occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm). Compatible with the first edition of the Official Scrabble Players Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on
of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the
official crossword list compatible with the second edition of the
Official Scrabble Players Dictionary. (Scrabble is a registered
trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries.
This gives the developer of a custom spelling checker a good beginning
pool of relatively common words.

21,986 names
This database contains the most common names used in the
United States and Great Britain. Spelling checkers may want to
supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used
English words from a wide variety of common texts listed
in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used
English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James
Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'étude' does not mark the accent on the initial 'e'.

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

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Franco-austrian
Franco-british
Franco-canadian
Franco-chinese
Franco-gallic
Franco-galician
Franco-gaul
Franco-german
Franco-italian
Franco-latin
Franco-lombardic
Franco-mexican
Franco-negroid
Franco-provencal
Franco-prussian
Franco-roman
Franco-russian
Franco-soviet
Franco-spanish
Franco-swiss
Francois
Francois Coli
Francois Duvalier
Francois Giuliani
Francois Guay
Francois Jauffret
Francois Mitterrand
Francois de Menthon
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Francoist
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Franconia
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Frank
Frank Caprice
Frank Carlucci
Frank Deford
Frank Iarossi
Frank Ikard
Frank Simonetti
Frank Viola
Frankclay
Franke
Frankel
Frankenia
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Frankenmuth
Frankenstein
Frankenstein monster
Frankenstein's monster
Frankewing
Frankford
Frankfort
Frankfort black
Frankfort on the Main
Frankfurt
Frankfurt am Main
Frankfurt horizontal
Frankfurter
Frankhouse
Frankie
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Frankist
Franklin
Franklin D Roosevelt
Franklin Lakes
Franklin Park
Franklin Square
Franklin cent
Franklin stove
Franklin tree
Franklin's gull
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Frederick III
Frederick IX
Frederick William
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Frederick William II
Frederick William III
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Frederick the Great
Fredericka
Fredericks
Fredericksburg
Frederickstown
Frederico
Fredericton
Frederigo
Frederik
Frederik IX
Frederika
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Frederiksted
Frederique
Fredette
Fredholm
Fredi
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Fredk
Fredonnia
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Fredric
Fredrich
Fredrick
Fredrickson
Fredrik
Fredrik Olausson
Fredrika
Fredrikstad
Fredville
Free
Free Church
Free French
Free Kirk
Free Kirker
Free Soil Party
Free State
Free Stater
Free Territory of Trieste
Free World
Free and Accepted Masons
Free kirk
Free-soil party
Free-soilism
Freeborn
Freeburg
Freeburn
Freechurchism
Freed
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Freedom
Freedom 7
Freedomites
Freehold
Freekirker
Freeland
Freelandville
Freeman
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Freemason
Freemasonry
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Freemon
Freeport
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Freesia
Freesoil
Freestone State
Freetown
Freeunion
Freeville
Freewater
Fregata
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Freia
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Freki and Geri
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Frenatae
French
French Academy
French Cameroons
French Canada
French Canadian
French Community
French Congo
French Equatorial Africa
French Foreign Legion
French Guiana
French Guianan
French Guianese
French Guinea
French India
French Indochina
French Morocco
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French Polynesia
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French Somaliland
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French Togoland
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French West Africa
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French arch
French bean
French bed
French blue
French bread
French bulldog
French chalk
French chop
French coach horse
French cricket
French cuff
French curve
French disease
French door
French doors
French doughnut
French drain
French dressing
French endive
French fake
French flat
French foot
French fried potatoes
French fries
French gray
French harp
French heel
French honeysuckle
French horn
French ice cream
French kid
French kiss
French knickers
French knot
French leave
French letter
French lilac
French literature
French lug
French marigold
French mulberry
French mustard
French navy
French nettle
French nude
French pancake
French pastry
French pitch
French plague
French pleat
French police
French polish
French pox
French roll
French roof
French rose
French school
French seam
French shroud knot
French sixth
French stick
French stick loaf
French system
French tab
French tamarisk
French telephone
French toast
French truss
French twist
French vermouth
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French-born
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French-heeled
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French-loving
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French-minded
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Friars Minor
Friars Minor Capuchin
Friars Minor Conventual
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Friday the thirteenth
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Friendsville
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Frisian Islands
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Fungi Imperfecti
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Funkia
Funkstown
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Fusulina
Fusus
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Futura
Future Farmer
Future Farmers of America
Futurism
Futurist
Fuzzy Zoeller
Fyodorova
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Gandhi cap
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Ganesha
Gang of Four
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Ganga jal
Gangamopteris
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Ganges dolphin
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Garibaldi
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Garland sunday
Garlanda
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Garlic sunday
Garlinda
Garling
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Garment District
Garmisch-Partenkirchen
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Garnavillo
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Garrattsville
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Gastrophilus
Gastropoda
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Gata disease
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Gatesville
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Gatias
Gatlinburg
Gatling
Gatling gun
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Gatun Lake
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Gaucher's disease
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Gaudeamus igitur
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Gaudete
Gaudete Sunday
Gaudete sunday
Gaudette
Gaudette sanday
Gaudibert
Gaudier-Brzeska
Gaugamela
Gaughan
Gauguin
Gauhati
Gaul
Geechee
Geehan
Geelong
Geelvink Bay
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Geerts
Geesey
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Gegenschein
Geheimrat
Gehenna
Gehlbach
Gehman
Gehrig
Geibel
Geidar Aliev
Geier
Geiger
Geiger counter
Geiger threshold
Geiger tube
Geiger-Klemperer counter
Geiger-Muller counter
Geiger-counter telescope
Geigertown
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Geikia
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Geilich
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Geismar
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Geissler tube
Geissoloma
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Geissolomataceous
Geissorrhiza
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Gelatius II
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Gelderland
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Gene Keady
Gene Shue
Gene Ubriaco
Geneautry
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Geneina
General Accounting Office
General American Speech
General Assembly
General Certificate of Education
General Court
General Post Office
General Postal Union
General Services Administration
General Synod
Generalidad
Generalira Eaker
Genesa
Genesco
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Geneva bands
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Genfersee
Geng Biao
Genghis Khan
Gengkow
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Gennifer
Genny
Geno
Genoa
Genoa cake
Genoa jib
Genoese
Genoese lottery
Genolla
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Gentleman Usher of the Black Rod
Gentoo
Gentoos
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Genucius
Genvieve
Genyophrynidae
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Geoff Bodine
Geoff Huston
Geoffrey
Geoffrey of Monmouth
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Geomyidae
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Georan Gentele
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Georgadjis
Georgann
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George Ahmaogak
George Argyros
George Ariyoshi
George Balanchine
George Beall
George Crile
George Cross
George Deukmejian
George Fox
George Grivas
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George IV
George Irvine
George Seifert
George Town
George V
George VI
George Washington
George de Mohrenschildt
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Georges Bank
Georges Bertoncini
Georgescu Alexandru
Georgesman
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Georgette
Georgette crepe
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Georgi Dimitrov
Georgia
Georgia bark
Georgia pine
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Georgian Bay
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Georgy Arbatov
Georgy Beregovoy
Georgy Dobrovolsky
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Gerardo
Gerasene
Geraud
Gerbatka
Gerber
Gerbera
Gerberia
Gerbillinae
Gerbillus
Gerbold
Gerd
Gerd Heidemann
Gerda
German camomile
German catchfly
German coach horse
German cockroach
German ivy
German knot
German lapis
German measles
German police dog
German shepherd
German shepherd dog
German short-haired pointer
German siding
German silver
German sixth
German text
German tinder
German wire-haired pointer
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German-hungarian
German-italian
German-jewish
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German-palatine
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Giant killer
Giant's Causeway
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Half-anglicized
Half-aristotelian
Half-asiatic
Half-christian
Half-confederate
Half-creole
Half-elizabethan
Half-english
Half-french
Half-german
Half-grecized
Half-hessian
Half-irish
Half-latinized
Half-mexican
Half-mohammedan
Half-moslem
Half-oriental
Half-russian
Half-scottish
Half-semitic
Half-shakespearian
Half-spanish
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Heaven be praised
Heaven forbid
Heaven forfend
Heaven knows
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Heavenly City
Heavenly City of God
Heavenly city
Heavenly preceptor
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Heaviside-Kennelly layer
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Hoa Hao
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Holy Ark
Holy Bible
Holy Church
Holy City
Holy Communion
Holy Family
Holy Father
Holy Ghost
Holy Grail
Holy Innocents' Day
Holy Island
Holy Joe
Holy Lamb
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Holy Mary
Holy Moses
Holy Mysteries
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Holy One
Holy Roller
Holy Roman Emperor
Holy Roman Empire
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Holy Scripture
Holy Scriptures
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Holy Virgin of Virgins
Holy Week
Holy Willie
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Holy Year
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Holy willie
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Holyrood
Holzman
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Homagyrius
Homalin
Homalocenchrus
Homalonotus
Homalopsinae
Homaloptera
Homalopterous
Homalosternii
Homam
Homans
Homaridae
Homarus
Homburg
Home
Home Burial
Home Counties
Home Guard
Home Office
Home Rule
Home Secretary
Homedale
Homer
Homere
Homeric
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Homeric simile
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Homerically
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Honduranean
Honduranian
Honduras
Honduras bark
Honduras cedar
Honduras mahogany
Honduras oak
Honduras rosewood
Hondurean
Hondurian
Honea Path
Honeapath
Honebein
Honecker
Honegger
Honeoye
Honesdale
Honest John
Honey
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Honeyman
Honeyville
Honeywell
Honeywood
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Hong
Hong Kong
Hong Kong flu
Hong-Kong
Hongleur
Honiara
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Honiton
Honna
Honniball
Honobia
Honokaa
Honolulu
Honomu
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Honoraville
Honoria
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Hoosierdom
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Houck
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Houdon
Houei Sai
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Hubey
Hubie
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Hudson Bay seal
Hudson Falls
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Hudson River sloop
Hudson Strait
Hudson seal
Hudson's Bay Company
Hudson's Bay blanket
Hudsonia
Hudsonian
Hudsonian curlew
Hudsonville
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Huei
Huelva
Huerta
Huesca
Humean
Humeston
Humfrey
Humfrid
Humfried
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Hunfredo
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Hung Yen
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Hungarian
Hungarian brome grass
Hungarian goulash
Hungarian lilac
Hungary
Hungary blue
Hungary leather
Hungary water
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Hunker
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Hunkpapa
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Hunter
Hunterian
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Hymettic
Hymettius
Hymettus
Hymie
Hymir
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Hyndman
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Hyotherium
Hyozo
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Hypatia
Hypatie
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Hyper-calvinistic
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Hyper-ionian
Hyper-jacobean
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Hyper-phrygian
Hyper-romantic
Hyper-uranian
Hyperborean
Hypercheiria
Hyperenor
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Hypergeron
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Hypericales
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Hypermnestra
Hyperoartia
Hyperoodon
Hyperotreta
Hyperotreti
Hypertherm
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Hypnus
Hypo-
Hypochaeris
Hypochnacea
Hypochnus
Hypocreaceae
Hypocreales
Hypodermella
Hypodorian
Hypohippus
Hypolite
Hypolydian
Hypoparia
Hypopitys
Hypostomata
Hypostomides
Hypotheria
Hypotremata
Hypotricha
Hypotrichida
Hypoxis
Hypoxylon
Hypoza
Hyps
Hypseus
Hypsilophodon
Hypsilophodontidae
Hypsiprymninae
Hypsiprymnodontinae
Hypsiprymnus
Hypsipyle
Hypsistarian
Hypsistus
Hyrachyus
Hyracidae
Hyracina
Hyracodon
Hyracodontidae
Hyracoidea
Hyracotheriinae
Hyracotherium
Hyrcan
Hyrcania
Hyrcanian
Hyrie
Hyrmia
Hymetho
Hyrtius
Hyrum
Hyrup
Hysham
Hyssopus
Hysteraeales
Hysterocarpus
Hysterophyta
Hystricidae
Hystricinae
Hystricomorpha
Hystrix
Hz
I
I Am
I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don't care
I don't have the first idea
I don't know what
I don't see how
I don't see why
I don't understand
I girder
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I""d
I""ll
I""s
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
I's
I've
I-beam
I-bunga
I-go
I-ism
I-ness
I-railed
I-ship
I-spy
I/O
IA
IAA
IAB
IAD
IADB
IAEA
IAF
ID
ID card
IDA
IDB
IDC
IDDD
IDE
IDEA
IDF
IDI
IDL
IDM
IDN
IDP
IDP machine
IDS
IDV
IDVC
IE
IEC
IEE
IEEE
IEN
IESG
IETF
IF
IF amplification
IF amplifier
IF audio signal
IF oscillator
IF pulse
IF signal
IF transformer
IF video signal
IFB
IFC
IFF
IFF radar
IFIP
IFLA
IFLWU
IFO
IFR
IFRPS
IFS
IG
IGES
IGFET
INC
IND
INGRES
INH
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INMS
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INTUC
INWATS
IO
IO device
IOC
IOCC
IOD
IOF
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IONL
IOOF
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IP
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IPBM
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IPCC
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ISUP
ISV
ISY
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IT&T
ITA
ITC
ITCZ
ITM
ITO
ITS
ITSEC
ITSO
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ITU
ITUSA
ITV
IU
IUD
IUE
IUS
IUV
IV
IVB
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IVTS
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IWBNI
IWC
IWS
IWW
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IXC
IXM
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Ia Drang
Iacchic
Iacchos
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Ichthyomorpha
Ichthyopsida
Ichthyopterygia
Ichthyornis
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Ichthyornithidae
Ichthyornithiformes
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Ichthyosauridae
Ichthyosaurus
Ichthyotomi
Icken
Ickes
Ickesburg
Iconian
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Iconoscope
Icosandria
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Icteridae
Ictinus
Ictonyx
Id
Ida
Idabel
Idaea
Idaean
Idaean Dactyl
Idaean Mother
Idaho
Idaho cedar
Idaho white pine
Idahoan
Idaic
Idalia
Idalian
Idalina
Idaline
Idalla
Idalou
Idamay
Idanha
Idas
Idaville
Idden
Iddio
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Idea
Iedian
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Idelia
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Ignacia
Ignacio
Ignacius
Ignatia
Ignatian
Ignatianist
Ignatius
Ignatius Acheampong
Ignatius Loyola
Ignatius of Loyola Saint
Ignatz
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Ignaz
Ignazio
Ignorantine
Igo
Igor
Igor Larionov
Igorot
Igorots
Igot Gouzenko
Igraine
Iguac
Iguacor Iguass
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Iguassu
Iguvine
Ihab
Ihei Aoki
Ihlat
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Iiete
Iila
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Impeyan
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Imre Fold
Imre Hollai
Imre Horvath
Imre Nagy
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In Dubious Battle
In God We Trust
In Praise of Folly
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Inachus
Inanna
Inari
Inarticulata
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Inauguration day
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Inca bone
Inca dove
Incabloc
Incaic
Incan
Incaparina
Incarial
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Incarvillea
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India buff
India chintz
India cotton
India drugget
India gall
India gum
India ink
India malacca
India matting
India muslin
India paper
India pepper
India pink
India print
India proof
India red
India rubber
India scrim
India shawl
India silk
India tan
India tea
India tint
India wheat
India-cut
India-rubber tree
India-rubber vine
Indiahoma
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Indiamen
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Indian Claims Commission
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Indian National Congress
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Indian agent
Indian apple
Indian balsam
Indian bison
Indian blanket
Indian bread
Indian breadroot
Indian bridle
Indian buffalo
Indian cherry
Indian cholera
Indian club
Indian cobra
Indian corn
Indian cress
Indian cup
Indian currant
Indian drug
Indian elephant
Indian fig
Indian file
Indian gift
Indian giver
Indian giving
Indian grackle
Indian hawthorn
Indian header
Indian heat
Indian hemp
Indian hippo
Indian house
Indian ink
Indian jujube
Indian lettuce
Indian licorice
Indian liquorice
Indian list
Indian lotus
Indian madder
Indian mallow
Indian meal
Indian millet
Indian mode
Indian mulberry
Indian paintbrush
Indian pink
Indian pinkroot
Indian pipe
Indian pitcher
Indian pony
Indian potato
Indian pudding
Indian red
Indian reservation
Indian reserve
Indian rice
Indian rope-trick
Indian rug
Indian ruler
Indian salad
Indian sanicle
Indian sign
Indian silk
Indian summer
Indian sweater
Indian tea
Indian tobacco
Indian turnip
Indian weed
Indian wolf
Indian wrestling
Indian yellow
Indian-meal moth
Indiana
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Indo-burmese
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Indo-iranian
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Indo-spanish
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International Master
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Invercargill
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Inverness cape
Invernessshire
Inverson
Invertebrata
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Inyangga
Inyokern
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Io moth
Ioab
Ioannides
Ioannina
Iobates
Iodama
Iodamoeba
Iodeosin B
Iodeosin b
Iodol
Iola
Iolande
Iolanthe
Iolaus
Iole
Iolenta
Ion
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Iona cross
Ione
Ione formation
Ionesco
long
Ioni
Ionia
Ionian
Ionian Islands
Ionian Sea
Ionian mode
Ionian school
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Ionicization
Ionicize
Ionidium
Ionism
Ionist
Ionization
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Iricism
Iricize
Iricized
Iricizing
Iridaceae
Iridis
Iridissa
Iridomyrmex
Iridum
Irina
Irina Ratushinskaya
Iris
Irisa
Irish
Irish Christian Brother
Irish English
Irish Free State
Irish Gaelic
Irish Guards
Irish Mist
Irish Pale
Irish Republic
Irish Republican Army
Irish Sea
Irish boat
Irish bridge
Irish bull
Irish coffee
Irish confetti
Irish daisy
Irish dividend
Irish elk
Irish green
Irish harp
Irish lord
Irish moss
Irish pennant
Irish potato
Irish setter
Irish soda bread
Irish stew
Irish terrier
Irish tweed
Irish water spaniel
Irish whiskey
Irish wolfhound
Irish yew
Irish-American
Irish-born
Irish-bred
Irish-Canadian
Irish-English
Irish-grown
Irish-speaking
Irisher
Irishian
Irishise
Irishised
Irishising
Irishism
Irishize
Irishized
Irishizing
Irishly
Irishman
Irishmen
Irishness
Irishry
Irishwoman
Irishwomen
Irishy
Irita
Irja
Irkliion
Irkutsk
Irl
Irma
Irme
Irmgard
Irmina
Irmine
Irminer Current
Irmo
Irob-saho
Iroha
Iron Age
Iron Age man
Iron Chancellor
Iron Cross
Iron Curtain
Iron Duke
Iron Gate
Iron Gates
Iron Guard
Iron Maiden of Nuremberg
Iron Mountain
Iron River
Iron age
Iron-Guard
Ironbelt
Irondale
Irondequoit
Ironia
Irongs
Irons
Ironsides
Ironon
Iroquoian
Iroquois
Irpea
Irra
Irrawaddy
Irredentism
Irredentist
Irrigon
Irrisoridae
Irritila
Irtish
Irtys
Irtys h ostyak
Irus
Irv
Irvin
Irvine
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Irvingiana
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Irvingite
Irvington
Irvona
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Irwinh
Irwinville
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Isa
Isaac
Isaacs
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Isabea
Islaen
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Islamabad
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Islamic Republic of Mauritania
Islamic calendar
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Islamist
Islamistic
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Islamitish
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Islamize
Islamized
Islamizing
Islamorada
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Island Park
Island carib
Island of the Sun
Islands of the Blessed
Islandton
Islas Malvinas
Islay
Isle
Isle Royale
Isle of Capri
Isle of Man
Isle of Pines
Isle of Shoals boat
Isle of Wight
Islein
Isleana
Isleen
Islek
Isles of the Blessed
Islesboro
Islesford
Isleta
Isleton
Islington
Islip
Isma
Israel
Israel ben Eliezer
Israeli
Israelis
Israelite
Israeliteship
Israelitic
Israelitish
Israelitism
Israelitize
Israfil
Issachar
Issacharite
Issaquah
Issayeff
Issedoi
Issedones
Issei
Issi
Issiah
Issie
Issus
Issy
Issy-les-Molineux
Issyk-Kul
Istachatta
Istanbul
Isth
Isthmia
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Neo-persian
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Neo-platonist
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Nernst lamp
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Netherlands Guiana
Netherlands West Indies
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New Castle
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New Church
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New Cumberland
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New Frontier
New Georgia
New Glasgow
New Granada
New Greek
New Guinea
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New Haven
New Haven theology
New Hebrides
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New High German
New Holland
New Iberia
New Ireland
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New Journalism
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New Lexington
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New Madrid
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New Milford
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New Netherland
New Objectivity
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New Paltz
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New Providence
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New Rochelle
New Romney
New Scotland Yard
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New South
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New Thoughter
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New Windsor
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New York Curb Exchange
New York State
New York State Barge Canal
New York State wine
New York Stock Exchange
New York aster
New York cheese
New York cut
New York point
New York's finest
New Yorkers
New Zealand
New Zealand flax
New Zealand seal
New Zealand wineberry
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New englander
New englandish
New englandism
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New hampshirean
New hampshirite
New jersey
New jerseyite
New mexican
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New thoughtist
New world
New years day
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New Zealand
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Newark Bay
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Newcastle-upon-Tyne
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Newcomerstown
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Newfoundland
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Newmann
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Newport
Newport Beach
Newport News
Newport boat
Newsom
Newsweek
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Newton Falls
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Newton's law of motion
Newton's laws of motion
Newton's method
Newton's rings
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Newtonian physics
Newtonian telescope
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Ngo Dinh Diem
Ngo Dzu
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Nike
Nike Ajax
Nike Hercules
Nike Zeus
Nike of Samothrace
Nikeno
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Nikita Khrushchev
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Niklaus
Niko
Nikola
Nikola Ignatov
Nikola Kavaja
Nikolai
Nikolai Bulganin
Nikolai Ryzhkov
Nikolainkaupunki
Nikolaos
Nikolas
Nikolaus
Nikolayer
Nikolayev
Nikoletta
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Nile River
Nile blue
Nile green
Niles
Nilgiri Hills
Nilla
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Nimitz
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Nimwegen
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Nine Dragon Scroll
Nine Worthies
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Ninevithish
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Ningirsu
Ningpo
Ningsia
Ningsia Hui Autonomous Region
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Ninigino-Mikoto
Ninilchik
Ninkur
Ninlil
Ninnah
Ninnekah
Ninnetta
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Ninsar
Ninshubur
Ninth of Ab
Ninth of Av
Nintoo
Ninurta
Ninus
Niobe
Niobean
Niobid
Niobite
Niobrara
Niolo
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Nipha
Nipigon
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Nippon chrysanthemum
Nippon daisy
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Nipponism
Nipponize
Nippur
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Nireus
Nirmalin
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Nisaean
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Nisbet
Nisei
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Nishi
Nishinomiya
Nisquali
Nissa
Nissan
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Nissen hut
Nissensohn
Nissie
Nisswa
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Nistru
Nisula
Nisus and Euryalus
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Nitella
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Niteroi
Nitidulidae
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Nito Alves
Nitrallon
Nitrian
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Nitrosomonas
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Niverville
Nivose
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Nixie tube
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Nixon Doctrine
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Nizhni Novgorod
Nizhni Tagil
Njord
Njorth
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Nnamidi Azikiwe
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Noach
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Noachic
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Noachite
Noachiun
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Noah's Dove
Noah's ark
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Noakes
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Noami
Noank boat
Noank sloop
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Nobel Prize
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Nokolai Fedorenko
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Nolanville
Nolasca
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Nolensville
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Noli
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Nolita
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Nomarthra
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Nomeus
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Nomura
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Non-american
Non-anglican
Non-arab
Non-arabic
Non-archimedean
Non-asiatic
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Non-bantu
Non-baptist
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Non-bolshevist
Non-brahmanical
Non-british
Non-buddhist
Non-calvinist
Non-catholic
Non-caucasian
Non-celtic
Non-chaucerian
Non-chinese
Non-christian
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Non-congressional
Non-cymric
Non-czech
Non-danish
Non-darwinian
Non-druid
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Non-islamic
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Non-israelitish
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Non-umbrian
Non-unitarian
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Non-venetian
Non-vergilian
Non-virginian
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Non-yahgan
Non-zionist
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Noncalcarea
Nonconformist
Nondalton
Nondeciduata
Nong Khai
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Nonintercourse Act
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Nonna
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Nonruminantia
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Noonan
Noonberg
Noordbrabant
Noordholland
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Nootka cypress
Nootka fir
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Nordhausen acid
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Norridgewock
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Norris
Norris-La Guardia Act
Norristown
Norrkoping
Norrkping
Norroway
Norroy
Norroy King of Arms
Norroy and Ulster
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North American
North Arlington
North Atlantic Current
North Atlantic Drift
North Atlantic Treaty
North Battleford
North Bay
North Bellevernon
North Bellmore
North Belmont
North Bend
North Bergen
North Borneo
North Brabant
North Brookfield
North Cape
North Carolina
North Carolinian
North Catasauqua
North Caucasian
North Caucasus
North Central region
North Channel
North Chicago
North Country
North Dakota
North East Frontier Agency
North Fond du Lac
North Frigid Zone
North Germanic
North Haledon
North Highlander
North Highlands
North Holland
North Island
North Korea
North Little Rock
North Manchester
North Mankato
North Miami
North Miami Beach
North Muskegon
North New Hyde Park
North Ogden
North Olmsted
North Pacific current
North Palm Beach
North Pelham
North Pole
North Rhine-Westphalia
North Richland Hills
North Riding
North River
North Riverside
North Saskatchewan
North Sea
North Star
North Syracuse
North Tarrytown
North Temperate Zone
North Vietnam
North Wales
North Wildwood
North Wilkesboro
North Yorkshire
North pole
North-Sea gas
North-West Frontier
North-West Frontier Province
Northallerton
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Northanger Abbey
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Northborough
Northcliffe
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Northeast Passage
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Northern Cameroons
Northern Cross
Northern Dvina
Northern Ireland
Northern Michigan
Northern Paiute
Northern Rhodesia
Northern Rhodesian
Northern Sotho
Northern Sporades
Northern Spy
Northern Territories
Northern Territory
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Northumbria
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Northwest Ordinance
Northwest Passage
Northwest Territories
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Norway lobster
Norway maple
Norway rat
Norway ries
Norway spruce
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Norwegian Coastal Current
Norwegian Current
Norwegian Sea
Novaya Zemlya
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Novokuznetsk
Novonikolaevsk
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Novoshakhtinsk
Novosibirsk
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Novum Organum
Nowa Huta
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Nozze di Figaro, Le
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Nubian Desert
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Nuculacea
Nuculidae
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Nudens
Nudibranchia
Nueces
Nueva Gerona
Nueva Ocotepeque
Nuevo
Nuevo Laredo
Nuevo Leon
Nuffield
Nuffield teaching project
Nufud
Nugent
Nugumiut
Nuits-Saint-Georges
Nuits-St-Georges
Nuku'alofa
Nukuhivan
Nukus
Nuli
Nullarbor Plain
Nullipennes
Nullstellensatz
Num
Numa
Numa Pompilius
Numantia
Numantine
Numanus
Number Ten
Numbers
Numenius
Numerische
Numida
Numidae
Nyquist
Nyregyhza
Nyroca
Nysa
Nysaean Nymphs
Nyseides
Nyssa
Nyssaceae
Nyx
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O & M
O Henry
O Lord
O gauge
O level
O my soul
O star
O station
O wild West Wind
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O'Boyle
O'Brien
O'Callaghan
O'Carroll
O'Casey
O'Connell
O'Connor
O'Conner
O'Dell
O'Doneven
O'Donnell
O'Donoghue
O'Donovan
O'Driscoll
O'Dwyer
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Occidentalizing
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Occoquan
Occupation Day
Occupation day
Ocean of Storms
Oceana
Oceania
Oceanian
Oceanic
Oceanic mongol
Oceanica
Oceanian
Oceanid
Oceano
Oceanport
Oceanside
Oceanus
Oceanus Procellarum
Oceanview
Oceanville
Oceola
Ochelata
Ocheydan
Ochimus
Ochna
Ochnaceae
Ochoa
Ochopee
Ochotona
Ochotonidae
Ochozath
Ochozias
Ochozoma
Ochrana
Ochroma
Ochs
Ocie
Ocilla
Ocimum
Ockeghem
Ockenheim
Ocker
Ockham
Ockham's razor
Ocko
Ocneria
Ocnus
Odab
Odacidae
Odanah
Odawa
Odax
Odd fellow
Odd fellowship
Oddfellow
Oddibe Mcdowell
Odds
Oddsbud
Ode
Ode on Indolence
Ode on Melancholy
Ode on a Grecian Urn
Ode to Autumn
Ode to Duty
Ode to Psyche
Ode to a Nightingale
Ode to the West Wind
Odebolt
Odeen
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Odele
Odelet
Odelia
Odelinda
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Odelsting
Odelstthing
Odem
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Odenton
Odenville
Oder
Oder-Neisse Line
Odericus
Odessa
Odets
Odetta
Odette
Odey
Odie
Odilia
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Odilo
Odilon
Odin
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Odinian
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Odinism
Odinist
Odinitic
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Odonata
Odonnell
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Odontaspididae
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Odontoceti
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Odontoglossum
Odontognathae
Odontolcae
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Odontophorinae
Odontophorus
Odontopteris
Odontopteryx
Odontormae
Odontornithes
Odontosyllis
Odontotormae
Odoric
Odostemon
Odovacar
Odra
Odrick
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Odsbodkins
Odum
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Ody
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Western Ghats
Western Han
Western Hemisphere
Western Hindi
Western India States
Western Islands
Western Isles
Western Ocean
Western Reserve
Western Roman Empire
Western Sahara
Western Samoa
Western Slavs
Western Thrace
Western imperialism
Western saddle
Western story
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White Friar
White Hall
White House
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White Ladies of Normandy
White Lady
White Lady of Avenel
White Monk
White Mountains
White Nile
White Pass
White Plains
White Power
White River
White River Junction
White Rock
White Russia
White Russian
White Sea
White Slave Act
White Sunday
White Surrey
White Volta
White man's burden
White supremacy
Whitebird
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Wilcox
Wild Duck, The
Wild Geese
Wild Hunt
Wild Huntsman
Wild West
Wild West show
Wilda
Wilde
Wildee
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Wilder
Wildermuth
Wilderness
Wildersville
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William Crowe
William Dyess
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William Francis Giauque
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William Gaess
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William Gutse
William Heikkila
William Higham
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William III
William IV
William Jennings Bryan
William Rose Benet
William Seidman
William Tell
William Van Rij
William of Malmesbury
William the Conqueror
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Women's Air Force
Women's Air Force Service Pilots
Women's Army Auxiliary Corps
Women's Army Corps
Women's Auxiliary Air Force
Women's Institute
Women's Liberation
Women's Royal Air Force
Women's Royal Army Corps
Women's Royal Naval Corps
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Worthville
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X
X axis
X chromosome
X radiation
X ray
X's
X-chromosome
X-rated movie
X-ray
X-ray cancer
X-ray diffraction camera
X-ray diffraction tube
X-ray dosimetry
X-ray eye
X-ray machine
X-ray microscope
X-ray movie
X-ray photograph
X-ray photographer
X-ray photography
X-ray photometry
X-ray spectrograph
X-ray spectrometer
X-ray spectrometry
X-ray spectrum
X-ray technician
X-ray therapy
X-ray tube
X-ray-proof
X-shaped
X-type engine
X-wave
X25
XA
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Y-chromosome
Y-gun
Y-level
Y-potential
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You Can't Take It With You
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Zhang Chungqiao
Zhao Ziyang
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Zoanthus
Zoar
Zoara
Zoarah
Zoarces
Zoarite
Zoba
Zobe
Zobias
Zobkiw
Zoe
Zoeller
Zoellick
Zoes
Zonta
Zonta Club
Zonta club
Zontian
Zonuridae
Zonurus
Zoochlorella
Zoomastigina
Zoomastigoda
Zoophaga
Zoophagineae
Zoophyta
Zootoca
Zophar
Zoque
Zoquean
Zora
Zorah
Zorana
Zoraptera
Zorillinae
Zorina
Zorine
Zorn
Zorn's lemma
Zoroaster
Zoroastrian
Zoroastrianism
Zoroastrism
Zorobabel
Zorotypus
Zortman
Zosema
Zoser
Zosi
Zosima
Zosimus
Zosma
Zostera
Zosteraceae
Zosteria
Zosteropinae
Zosterops
Zouave
Zouave jacket
Zoubek
Zoug
Zoysia
Zr
Zrich
Zrike
Zsa
Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
Zu-zu
Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
Zuckerman
Zug
Zui
Zuian
Zuider Zee
Zuidholland
Zulch
Zuleika
Zulema
Zulfikar Ali Bhutto
Zulhijjah
Zulinde
Zulkadah
Zullinger
Zullo
Zuloaga
Zulu
Zulu-kaffir
Zuludom
Zuluize
Zululand
Zulus
Zumbrota
Zumstein
Zumwalt
Zungaria
Zuni
Zunian
Zygopteris
Zygosaccharomyces
Zyrenian
Zyrian
Zyryan
Zysk
Zythia
Zyzomys
Zyzzogeton
Zz
a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deux
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hand at
a hand for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemande
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'etouffee
a l'improviste
a l'italienne
a la
a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearnaise
a la bonne femme
a la bordelaise
a la bourgeoise
a la carte
a la casserole
a la cocotte
a la coque
a la creole
a la dauphine
a la dauphinoise
a la derobee
a la diable
a la francaise
a la godiveau
a la grecque
a la jardiniere
a la julienne
a la king
a la lyonnaise
a la macedoine
a la maitre d'hotel
a la matelote
a la mire
a la mode
a la mode de Caen
a la mort
a la napolitaine
a la normande
a la parisienne
a la polonaise
a la printaniere
a la ravigote
a la reine
a la russe
a la serviette
a la sourdine
a la suisse
a la tartare
a la vinaigrette
a lac
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a rebours
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-dead
a-deep
a-doors
a-flicker
a-game
a-glimmer
a-glucosidase
a-good
a-gore-blood
a-height
a-hay
a-high
a-high-lone
a-hold
a-horizon
a-horseback
a-hunt
abacus pythagoricus
abalone shell
abandon hope
abandon the world
abandoned person
abandoned thing
abase bemean
abase yourself
abatement of differences
abb wool
abbey counter
abbey laird
abbey lands
abbey lubber
abbot cloth
abbreviated number
abc soil
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abducent nerve
abducent nerve
abelian group
aberdeen angus
aberrant duct
aberration constant
abide by
abide in
abide with
abide your time
abiding place
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablution room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
abovequoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxas stone
 abreast of
 abreast of the times
 abruptly acuminate
 abruptly pinnate
 abs-
 abscisic acid
 absciss layer
 abscission layer
 abscission zone
 absence flag
 absence of assignable cause
 absence of authority
 absence of charge
 absence of color
 absence of mind
 absence of motion
 absence state
 absence without leave
 absent flag
 absent treatment
 absent voter
 absent without leave
 absent yourself
 absent yourself from
 absent-minded
 absent-mindedly
 absent-mindedness
 absente reo
 absenteer ballot
 absenteel landlord
 absenteer vote
 absenteer voter
 absenteer voting
 absinthe green
 absinthe oil
 absit omen
 absolute alcohol
absolute altimeter
absolute altitude
absolute angstrom
absolute ceiling
absolute certainty
absolute complement
absolute contradiction
absolute convergence
absolute credibility
absolute ego
absolute fact
absolute free will
absolute humidity
absolute idea
absolute idealism
absolute idealist
absolute impediment
absolute index of refraction
absolute indication
absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
absolute permittivity
absolute pitch
absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
absorbed interest
absorbed with
absorbent cotton
absorber oil
absorbing well
absorption and regurgitation
absorption band
absorption bands
absorption circuit
absorption coefficient
absorption current
absorption discontinuity
absorption dynamometer
absorption edge
absorption factor
absorption limit
absorption lines
absorption pipette
absorption screen
absorption spectrum
absorption system
abstain from
abstinence from food
abstinence theory
abstract algebra
abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
abstract mechanics
abstract noun
abstract of title
abstract space
abstract thought
abstract yourself
absurd idea
abundance declaree
abundant number
accede to
accede to prejudice
accede to the throne
acceleration coefficient
acceleration due to gravity
acceleration note
acceleration of free fall
acceleration of gravity
acceleration principle
accelerator globulin
accelerator nerve
accent mark
accidental meter
accept Christ
accept a challenge
accept advice
accept for gospel
accept implicitly
accept obligation
accept responsibility
accept the responsibility
accept unquestioningly
accept your fate
accept your lot
acceptable person
acceptance bill
acceptance house
acceptance race
acceptance sampling
acceptance speech
acceptance supra protest
accepted conduct
accepted fact
accepted masons
accepted meaning
acceptor atom
acceptor impurity
acceptor supra protest
access road
access time
accession book
accession number
accession service
accession to power
accessory adjunct
accessory after the fact
accessory before the fact
accessory chromosome
accessory fruit
accessory nerve
accident boat
accident insurance
accident neurosis
accident prone
accident tout
accident-prone
accidental discovery
acclimation medal
acclimation fever
accommodate distribution
accommodate to
accommodate with
accommodate yourself to
accommodated to
accommodation acceptance
accommodation address
accommodation bill
accommodation draft
accommodation group
accommodation ladder
accommodation line
accommodation paper
accommodation train
accommodation works
accompaniment figure
accompanying fire
accomplice in crime
accomplished fact
accord a blank check
accord respect to
accord to
according as
according to
according to Hoyle
according to circumstances
according to custom
according to expectation
according to law
according to regulations
according to reports
according to rule
according to rumor
according to the agreement
according to the bargain
according to the contract
according to the dictates of Mrs
according to the evidence
according to the letter
according to this reading
according to use
according to your lights
accordion pleat
accordion pleats
account as
account book
account current
account day
account days
account duty
account entry
account executive
account for
account of
account payable
account receivable
account render
account rendered
account sales
account stated
account with
accountant general
accounted as
accounting for
accounting period
accounts current
accounts payable
accounts payable ledger
accounts receivable
accounts receivable ledger
accredit with
accrete to
accretion borer
accretion cutting
accroach to yourself
accroides gum
accrual basis
accrete to
accrued dividend
accrued dividends
accrued interest
accrued liability
accumulated dividends
accumulation factor
accumulation point
accusative-dative
accuse of
accuse yourself
accustom yourself to
ace in the hole
ace point
ace-high
acet-
acetal phosphatide
acetate green
acetate nitrate
acetate rayon
acetic acid
acetic acid amide
acetic anhydride
aceto-
acetoacetic acid
acetone alcohol
acetone body
acetone chloroform
acetone oil
acetous fermentation
acetyl benzoyl peroxide
acetyl bromide
acetyl carbinol
acetyl chloride
acetyl group
acetyl index
acetyl number
acetyl oxide
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylfomic acid
acetylsalicylic acid
acle-deucy
ach-y-fi
ache for
ache to
achemon sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achylia gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsine
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acrylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acrylyl group
acrylyl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
action filer
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
action time
action viewer
action-taking
action-taking knave
activated alumina
activated carbon
activated charcoal
activated epilepsy
activated sludge
activated-sludge process
activation energy
active algolagnia
active carbon
active communications satellite
active current
active duty
active fancy
active immunity
active layer
active list
active market
active operations
active principle
active reason
active securities
active service
active stock
active treatment
active use
active voice
active-bodied
active-limbed
active-minded
activist art
activity coefficient
activity stream
activity theory
actor’s agent
actor’s lines
actor-manager
actor-proof
actual cautery
ad hoc
ad hoc committee
ad hoc measure
ad hominem
ad hominem attack
ad in
ad inf
ad infinitum
ad init
ad initium
ad int
ad interim
ad lib
ad libitum
ad limina
ad litem
ad litteram
ad loc
ad majorem Dei gloriam
ad nauseam
ad out
ad patres
ad quem
ad rem
ad utrumque paratus
ad val
ad valorem
ad valorem duty
ad valorem tax
ad verbum
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
adam-and-eve
adapt to
adapted to
adaptive radiation
adar sheni
add a codicil
add fuel to the fire
add fuel to the flame
add gas
add insult to injury
add to
add up
add up to
add-add
added sixth
added sixth chord
added to
addendum circle
adder bead
adder fly
adder gem
adder pike
adder stone
adder's fern
adder's violet
adder's-grass
adder's-meat
adder's-mouth
adder's-mouths
adder's-tongue
adders-tongue
addict yourself to
addicted to
addicted to drink
addictive drug
adding machine
addison's disease
addition algebra
addition axiom
addition compound
addition logarithm
addition polymer
addition polymerization
addition product
addition table
addition theorem
additive color
additive group
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
adductor canal
adductor impressions
aden-
adeno-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylpyrophosphoric acid
adap in
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
adjutant bird
adjutant crane
adjutant general
adjutant general corps
adjutant stork
adjutant-general
adjutants general
adjuvant treatment
administer Communion
administer a sacrament
administer absolution
administer an oath
administer extreme unction
administer justice
administer rites
administer the Eucharist
administer to
administration of justice
administration, the
administrative county
administrative engineer
administrator ad litem
admiral of the fleet
admiral shell
admiralty alloy
admiralty bond
admiralty brass
admiralty bronze
admiralty cloth
admiralty law
admiralty metal
admiralty mile
admiration mark
admission fee
admission of light
admit everything
admit exceptions
admit of
admit of comparison
admit of no doubt
admit of no option
admitted fact
admitting no denial
admitting no dispute
admitting no doubt
admitting no exception
admitting no question
admitting that
adobe bug
adobe flat
adobe house
adobe lily
adobe tick
adolescent beard
adolescent stream
adopt a belief
adopt the cause of
adorer le veau d'or
adp-
adq-
adren-
adrenal gland
adrenal insufficiency
adrenocorticotropic hormone
adrenocorticotropic hormone
adsorption compound
adsorption isotherm
adsuki bean
adult education
adulterous affair
advance against
advance agent
advance base
advance fee
advance guard
advance man
advance note
advance notice
advance party
advance payment
advance poll
advance sheets
advance signal
advance to the rear
advance tracks
advance upon
advanced age
advanced degree
advanced gas-cooled reactor
advanced guard
advanced in life
advanced in years
advanced standing
advanced trainer
advanced work
advanced years
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbal noun
adverbial phrase
adversative asyndeton
adversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
advertising matter
advertising writer
advice boat
advise colleague
advise with
advise with your pillow
advisory body
advisory council
advisory opinion
advocacy journalism
advocatus diaboli
advocatus ecclesiae
adz block
adz eye
adzuki bean
ae-
aeolian harp
aeolian lyre
aeolo-
aeons ago
aequo animo
aer-
aerating root
aere perennius
aeri-
aerial bomb
aerial combat
aerial heights
aerial infection
aerial ladder
aerial mine
aerial mosaic
aerial navigation
aerial perspective
aerial photograph
aerial photographer
aerial photography
aerial pingpong
aerial railway
aerial reconnaissance camera
aerial survey
aerial tactics
aerial torpedo
aerial tramway
aerial warfare
aero arrow
aero engine
aero-
aero-otitis
aero-otitis media
aerobic bacteria
aerobic organism
aerodynamic center
aerodynamic pitch
aerodynamic trajectory
aerodynamic volume
aerodynamic wave drag
aerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aerootitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aestho-physiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
affaire de coeur
affaires d'amour
affaires d'honneur
affaires de coeur
affect emotionally
affect epilepsy
affect memory
affect the guise of
affect the interest
affect the manner of
affect your mind
affectedly nice
affectionate name
affective faculty
affective meaning
afferent neuron
affiliate to
african violet
afro-american
afro-asiatic languages
aft the fantail
after a fashion
after a time
after a while
after all
after all is said and done
after bridge
after death
after deck
after mast
after shroud
after that
after the Fall
after the fact
after the flood
after the manner of men
after the war
after this
after this fashion
after time
after which
after your fancy
after your heart
after your own heart
after-
after-acquired
after-born
after-course
after-described
after-designed
after-dinner
after-dinner speaker
after-dinner speech
after-game
after-grass
after-guard
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
afternoon lady
afternoon tea
afternoon watch
aftershave lotion
ag lug
ag-
again and again
again and yet again
again-
against all expectation
against order and discipline
against the
against the clock
against the grain
against the law
against the new and untried
against the sun
against the tide
against the time when
against the wind
against time
against your grain
against your will
agal-agal
agar-agar
agaric acid
agaric mineral
agaricic acid
agate glass
agate gray
agate jasper
agate line
agate opal
agate shell
agate snail
agatho-
agave cactus
age class
age coating
age distribution
age grade
age group
age hardening
age limit
age norm
age of Aquarius
age of consent
age of discretion
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
age-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato-
aggressive mimicry
aggressive self-confidence
aggressively self-confident
aggressor nation
agile wit
again the government
agitator feed
agnus castus
agnus dei
agogic accent
agogic line
agonize over
agonizing pain
agony column
agony of mind
agony of spirit
agony of suspense
agrarian economics
agrarian economy
agree for the sake of argument
agree in opinion
agree in principle
agree on
agree on a verdict
agree on terms
agree provisionally
agree to
agree to anything
agree to differ
agree to disagree
agree upon
agree with
agreeable rattle
agreeable to
agreeable-sounding
agreeably to
agreed case
agreed on all hands
agreement in principle
agreement of all
agreement to disagree
agricultural agent
agricultural ant
agricultural chemical
agricultural deities
ailanthus silkworm
aileron angle
aileron roll
aim a blow at
aim at
aim at a pigeon and kill a crow
aim high
aim to
aimed at
aiming point
ain’t it the truth
air a grievance
air age
air alert
air ambulance
air arm
air armada
air attack
air bag
air base
air bath
air bed
air bell
air belt
air bends
air billow
air bladder
air blast
air blow
air blue
air box
air brake
air breather
air brick
air bridge
air brush
air bubble
air bump
air bus
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air coach
air cock
air combat
air command
air commodore
air compressor
air condenser
air conditioner
air conditioning
air conduction
air consignment note
air control
air controlman
air controls
air cooler
air cooling
air corps
air corridor
air course
air cover
air crash
air crew
air crossing
air cruiser
air current
air curtain
air cushion
air cushion car
air cylinder
air discharge
air division
air drain
air drainage
air drill
air duct
air ejector
air embolism
air engine
air express
air filter
air fleet
air float
air flow
air force
air freight
air furnace
air gap
air gas
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air injector
air intake
air jack
air jacket
air lance
air lane
air law
air layering
air leak
air legs
air letter
air level
air lift
air line
air liner
air lock
air log
air machine
air mail
air maneuver
air map
air marshal
air mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air serviceman
air shaft
air shovel
air show
air shuttle
air sleeve
air sock
air space
air spade
air speed
air spray
air sprayer
air spring
air stack
air station
air stone
air stove
air strainer
air stream
air strike
air support
air survey
air switch
air system
air taxi
air tee
air terminal
air thermometer
air thread
air traffic
air train
air transport
air trap
air travel
air trumpet
air trunk
air tube
air turbine
air twist
air umbrella
air university
air valve
air varie
air vent
air vesicle
air vice-marshal
air volcano
air volume
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  34064
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cured
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
air-twisted
air-vessel
air-wall ionization chamber
air-wise
air-wiseness
airborne controls
airborne infection
airborne intercept radar
airborne operations
airborne particles
airborne radar
airborne radioactivity
airborne rocket
airborne tactics
aircraft carrier
aircraft cloth
aircraft division
aircraft engine
aircraft engines
aircraft fabric
aircraft hydraulics
aircraft mechanic
aircraft observer
aircraft section
aircraft station
aircraft tender
airle-penny
airline hostess
airline stewardess
airline travel
airman basic
airman third class
airplane carrier
airplane cloth
airplane flare
airplane heading
airplane hijacker
airplane hijacking
airplane parts
airplane spin
airplane spotter
airport beacon
airport surveillance radar
airs and graces
airs of
airship parts
airship shed
airship station
airspeed indicator
airtight secrecy
airway beacon
airy hope
airy nothing
airy sign
airy texture
airy-fairy
aisle seat
aitch-bone
ajax the less
ajowan oil
akamushi mite
akinetic epilepsy
al Marsala
al burro
al dente
al fine
al fresco
al limone
al piacere
al segno
al-
al-Fustat
al-Lat
al-Mamoun
al-Sahih
al-Uzza
alamo vine
alang grass
alang-alang
alan camphor
alan starch
alar cartilages
alar ligaments
alar septum
alar thoracic artery
alarm bell
alarm bird
alarm clock
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albumino-
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-ometric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
alder-leaved
alderman lizard
aldol condensation
ale brewer
ale brewing
ale drinker
ale drinking
ale feast
ale gallon
ale garland
ale glass
ale pitcher
ale seller
ale selling
algorithmic language
ali-
alias dictus
alias writ
alibi out of
alien corporation
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquot part
aliquot tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all atwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools' day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints' day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls' day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all threes
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
all' ottava
all's well
all-
all-American
all-a-mort
all-abhorred
all-able
all-absorbing
all-accomplished
all-acting
all-admired
all-admiring
all-advised
all-affecting
all-afflicting
all-aged
all-air
all-amazed
all-american
all-appaled
all-appointing
all-approved
all-approving
all-armed
all-around
all-arraigning
all-arranging
all-assistless
all-atoning
all-attempting
all-availing
all-bearing
all-beauteous
all-beautiful
all-beholding
all-bestowing
all-binding
all-bitter
all-black
all-blasting
all-blessing
all-bounteous
all-bountiful
all-bright
all-brilliant
all-changing
all-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-disgraced
all-dispensing
all-disposer
all-disposing
all-divine
all-divining
all-dreaded
all-dreadful
all-drowsy
allearnest
all-eating
all-efficacious
all-efficient
all-eloquent
all-embracing
all-embracingness
all-encompasser
all-encompassing
all-ending
all-enduring
all-engrossing
all-engulfing
all-enlightened
all-enlightening
all-enraged
all-envied
all-essential
all-evil
all-excellent
all-expense
all-expenses-paid
all-eyed
all-fair
all-filling
all-fired
all-firedest
all-firedly
all-flaming
all-flotation
all-flower-water
all-flying tail
all-foreseeing
all-forgetful
all-forgetting
all-forgiving
all-forgotten
all-fullness
all-gas
all-giver
all-glorious
all-golden
all-governing
all-gracious
all-grasping
all-great
all-guiding
all-hallow
all-hallowed
all-happy
all-healing
all-hearing
all-heeding
all-helping
all-hiding
all-holy
all-honored
all-hoping
all-hurting
all-idolizing
all-illuminating
all-imitating
all-important
all-impressive
all-in
all-in-one
all-including
all-inclusive
all-inclusiveness
all-infolding
all-informing
all-interesting
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
call-knowingness
call-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obscurating
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overish
all-overishness
all-overpowering
all-overs
all-overtopping
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perficient
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quickening
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rending
all-righteous
all-round
all-round price
all-roundedness
all-ranker
all-raker
all-raked
all-raking
all-ranker
all-raker
all-raked
all-raking
all-thorny
all-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
all-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshiped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allergic shock
allergy diet
alley cat
alley-oop
allez-vous-en
alice shad
alligation alternate
alligation medial
alligator apple
alligator bonnets
alligator buttons
alligator cacao
alligator clip
alligator fish
alligator forceps
alligator gar
alligator head
alligator jaw
alligator juniper
alligator lizard
alligator pear
alligator pepper
alligator shear
alligator shears
alligator snapper
alligator snapping turtle
alligator squeezer
alligator terrapin
alligator tree
alligator turtle
alligator wampee
alligator weed
alligator wrench
alliterative meter
allo-
allo-octaploid
allow for
allow the occasion to go by
allow yourself to hope
allowance account
allowance race
allowed time
allowing that
alloy balance
alloy charge
alloy iron
alloy steel
allopered junction
allspice oil
allspice tree
allude to
alluring gland
alluvial cone
alluvial fan
alluvial plain
always fuze
ally-ally out'n free
allyl alcohol
allyl aldehyde
allyl caproate
allyl chloride
allyl group
allyl isothiocyanate
allyl mercaptan
allyl mustard oil
allyl radical
allyl resin
allyl sulfide
allyl sulphide
allyl thiocarbamide
alma mater
alma-materism
almain-rivets
almenn turma
almes se
almighty dollar
almond black
almond brown
almond cake
almond extract
almond eye
almond family
almond green
almond kernel
almond meal
almond milk
almond paste
almond peach
almond tumbler
almond willow
almond-eyed
almond-furnace
almond-leaved
almond-leaved willow
almond-shaped
almoner's cupboard
almost entirely
almost everywhere
almost periodic function
almost unheard-of
alms bag
alms basin
alms basket
alms box
alms bread
alms chest
alms dish
alms fee
alms gate
alms land
alms penny
alms priest
alms purse
alms-dealing
alms-fed
alms-house
almucantar staff
aloe creole
aloe hemp
aloe lace
aloe malgache
aloe-emodin
aloes green
aloes wood
aloft there
along by
along in years
along of
along the side of
along the way
along these lines
along toward
along with
alongside of
aloof from
alopecia areata
alopecia celsi
alopecia circumspecta
alouchi resin
alow and aloft
alpha and omega
alpha brass
alpha decay
alpha iron
alpha particle
alpha privative
alpha pulse analyzer
alpha radiation
alpha radiator
alpha ray
alpha rhythm
alpha score
alpha test
alpha-amylase
alpha-beta brass
alpha-cellulose
alpha-eucaine
alpha-hypophamine
alpha-naphthol
alpha-naphthyl group
alpha-naphthyl radical
alpha-naphthylamine
alpha-naphthylthiourea
alpha-particle scattering
alpha-stannic acid
alpha-tocopherol
alpha-truxilline
alphabet book
alphabet code
alphabet method
alphabet plant
alphabet soup
alphabetic character
alphabetic data
alphabetic symbol
alphabetical printer
alphanumeric code
alpine anemone
alpine aster
alpine azalea
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alerni-
alti-
alti-rilievi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relieveo
alto-relieves
alto-relievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
altocumulus floccus
altocumulus lenticularis
altocumulus stratiformis
altogether, the
altruistic ethics
aluchi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumno-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
aluminum sulfate
aluminum sulphate
alun-alun
alva marina
alveolar arch
alveolar process
alveolar ridge
alveolo-
alveololabial sulci
alveololingual sulci
always and everywhere
always trot out
alyce clover
amalgam arc
amalgam gilding
amalgamation process
amande amere
amande douce
amande pralinee
amandes mondees
amanita hemolysin
amanita toxin
amarant family
amaranth family
amaranth pink
amaranth-purple
amaryllis family
amassing evidence
amateur athlete
amateur band
amateur radio operator
amateur standing
amateur station
amateur status
amateur theatricals
amateur transmitter
amazing thing
amazon ant
ambary hemp
ambassador-at-large
ambassadors-at-large
amber brown
amber forest
amber jack
amber light
amber malt
amber mica
amber miner
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
amber-colored
amber-days
amber-dropping
amber-dropping hair
amber-headed
amber-hued
amber-locked
amber-tinted
amber-tipped
amber-weeping
amber-white
amber-yielding
ambi-
ambient phenomena
ambient temperature
ambiguous expression
ambil-anak
ambit piousness
ambitious for self
ambivalence of impulse
ambretta seed
ambrette seed
ambrette-seed oil
ambrosia beetle
ambs-ace
ambulacral foot
ambulance chaser
ambulance chasing
ambulatory plague
ambuling communion
ambush bug
ame damnee
amebic dysentery
amen corner
amende honorable
amende profitable
amende-honorable
amendes honorables
american chameleon
american cheese
american cowslip
american english
american indian
american ivy
american plan
american revised version
american sable
american saddle horse
american standard version
american trotter
americo-
ames-ace
amethyst cutter
amethyst violet
amiable weakness
amicable number
amici curiae
amicus curiae
amicus humani generis
amicus usque ad aras
amid the blaze of noon
amid-
amide powder
amido-
amido-urea
amidonaphthal red
amin-
amino acid
amino acids
amino azobenzene
amino group
amino nitrogen
amino radical
amino resin
amino-
amino-oxyipurin
aminoacetic acid
aminobenzoic acid
aminoquin naphthoate
aminosuccinic acid
ammo dump
ammo-
ammonia alum
ammonia condenser
ammonia gelatin
ammonia liquor
ammonia meter
ammonia nitrogen
ammonia process
ammonia soda
ammonia soda ash
ammonia soda process
ammonia solution
ammonia turpeth
ammonia valve
ammonia water
ammoniac plant
ammoniacal liquor
ammoniaco-
ammonio-
ammonioferric oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoebean verse
amoebic dysentery
among other things
amplitude compass
amplitude control
amplitude factor
amplitude modulation
amply endowed
ampullar sense
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylacetic ether
amylene hydrate
amyl-
amyloid degeneration
amylum body
amylum center
amylum grain
amylum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable Somewhat
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
anal character
anal fin
anal intercourse
anal sex
anal vein
analcite basalt
analog computer
analog feedback control
analog process
analog-digital converter
analogue computer
analogy test
analysis of variance
analysis situs
analytic continuation
analytic faculty
analytic geometry
analytic philosopher
analytic philosophy
analytic power
analytic psychology
analytical balance
analytical chemistry
analytical control unit
analytical cubism
analytical cubist
analytical geometry
analytical mechanics
analytical psychology
analytical spectrometer
analytico-architectural
analyze your motives
analyzed rhyme
anamite yeast
anamorphic lens
ananas oil
anaphylactic antibody
anaphylactic shock
anarcho-syndicalism
anarcho-syndicalist
anastomotic operation
anathema maranatha
anatomic diagnosis
anatomic medicine
anatomical pathology
anatomical snuffbox
anatomico-ance errand
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien regime
ancien rgime
ancienne noblesse
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strength
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
andro-genital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel-warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal disease
animal diseases
animal dyestuff
animal electricity
animal enclosure
animal faith
animal fiber
animal flower
animal force
animal handler
animal heat
animal husbandman
animal husbandry
animal hypnosis
animal kingdom
animal life
animal like types
animal magnetism
animal mechanics
animal mound
animal nature
animal noise
animal oat
animal oil
animal oils
animal physiologist
animal physiology
animal pleasure
animal pole
animal psychology
animal raiser
animal raising
animal rearing
animal rouge
animal science
animal scientist
animal size
animal soul
animal sound
animal spirit
animal spirits
animal starch
animal stuffer
animal stuffing
animal unit
animal worship
animal worshiper
animal young
animal-sized
animate existence
animate matter
animated cartoon
animated oat
animating force
animating power
animating principle
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
animus revocandi
animus testandi
anionic detergent
anis-
anise camphor
anise hyssop
anise oil
anise plant
anise-scented goldenrod
aniseed fox
aniseed oil
aniseed star
aniseed tree
anisic alcohol
anisic aldehyde
aniso-
anisyl acetate
anisyl alcohol
ankle boot
ankle clonus
ankle cutter
ankle jerk
ankle ring
ankle sock
ankle strap
ankle tie
ankle-deep
ankle-jacked
annatto tree
anni mirabiles
annihilation radiation
anno Domini
anno Hejirae
anno aetatis suae
anno domini
anno hegirae
anno mundi
anno regni
anno urbis conditae
annotated bibliography
announce with beat of drum
announced motive
annual bibliography
annual bluegrass
annual epact
annual holiday
annual parallax
annual percentage rate
annual period
annual ring
annual wage
annuit coeptis
annuities certain
annuity bond
annuity certain
annuity gift
annul a marriage
annular clock
annular eclipse
annular ligament
annular muscle
annunciator system
annus magnus
annus mirabilis
an-
anode dark space
anode glow
anode ray
anode rays
anode resistance
anodized aluminum
anodyne necklace
anointed king
anomalistic month
anomalistic year
anomalo-
anomalous zeeman effect
anomo-
anorexia nervosa
anorthite-basalt
another crack
another go
another kettle of fish
another shot
another time
another try
another-gates
another-guess
another-guise
anoxic anoxia
anp-
ansa hypoglossi
ansa subclavia
ansate cross
anserine skin
answer back
answer book
answer conclusively
answer for
answer the call of duty
answer the helm
answer the purpose
answer to
answer to a problem
answer to no man
answer-back
answerable for
answerable to
answering pennant
answering service
ant acacia
ant bear
ant bird
ant catcher
ant cattle
ant cow
ant egg
ant fly
ant heap
ant hill
ant hillock
ant king
ant lion
ant pipit
ant plant
ant rice
ant shrike
ant thrush
ant tree
ant worm
ant wren
ant-
ant-eater
ant-pipit
ant-thrush
antarctic beech
antarctic circle
antarctic circumpolar current
ante Christum
ante bellum
ante meridiem
ante mortem
ante partum
ante up
ante-
ante-Christum
ante-Nicaean
ante-Nicene
ante-Nicene Fathers
ante-acted
ante-ambulo
ante-bellum
ante-chapel
ante-ecclesiastical
ante-eternity
ante-mortem
ante-mortem clot
ante-orbital
ante-partum
ante-room
ante-temple
antecedent right
antecedent used in
antediluvian patriarch
antelope brush
antelope chipmunk
antelope squirrel
antenna array
antenna circuit
antenna filter
antenna grounding switch
antenna inductance
antenna mine
antenna resistance
antenna switch
antenna tower
antennae sword
antennal gland
antennal lobe
antenuptial contract
antenuptial settlement
anterior pituitary
anterior pituitary luteotropin
anterior tooth
antero-
anterograde amnesia
anterograde memory
anth-
anthelic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthra-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Biblically
anti-Bolshevik
anti-Bolshevism
anti-Bolshevist
anti-Bolshevistic
anti-British
anti-Calvinism
anti-Calvinist
anti-Calvinistic
anti-Calvinistical
anti-Catholic
anti-Catholicism
anti-Darwin
anti-Darwinian
anti-Darwinism
anti-Darwinist
anti-English
anti-Europe
anti-European
anti-Europeanism
anti-France
anti-French
anti-Freud
anti-Freudian
anti-Freudianism
anti-G suit
anti-German
anti-Germanic
anti-Germanism
anti-Germanization
anti-Greece
anti-Greek
anti-Irish
anti-Italian
anti-Italianism
anti-Japanese
anti-Jesuit
anti-Jesuitic
anti-Jesuitical
anti-Jesuitically
anti-Jesuitism
anti-Jesuitry
anti-Jewish
anti-Judaic
anti-Judaism
anti-Judaist
anti-Judaistic
anti-Latin
anti-Latinism
anti-Malthusian
anti-Malthusianism
anti-Mexican
anti-Plato
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Russian
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semitic
anti-Semitism
anti-Serb
anti-Slav
anti-Slavic
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attrition
anti-birmingham
anti-christian
anti-depressant
anti-emetic
anti-ethmc
anti-federalist
anti-gallic
anti-gallican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecomption
anti-lecomptom
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existential
anti-roman
anti-semite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberi-beri factor
antiblackout suit
antiblastic immunity
antic wit
anticipate a blessed event
anticipating a blessed event
anticrepuscular arch
antidote cocoon
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonous acid
antimoniouso-
antimonous hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydrid
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonyl potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal chanting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
antique bronze
antique brown
antique cloth
antique collector
antique crown
antique dealer
antique drab
antique glass
antique gold
antique green
antique plane
antique red
antique store
antique-car collector
antiradar rocket
antiseptic surgery
antisocial attitudes
antisocial personality
antisocial sentiments
antisterility factor
antisubmarine bomb
antisubmarine mortar
antisubmarine patrol
antisubmarine plane
antisubmarine projector
antisubmarine radar
antisymmetrical tensor
antitank gun
antitank mine
antitank rifle
antitank rocket
antitorque rotor
antitoxic globulin
antitoxic serum
antitwilight arch
antixerophthalmic vitamin
antler moth
antlion fly
ants in your pants
antsy-pantsy
anvil block
anvil chisel
anvil cloud
anvil cupper
anvil cutter
anvil dross
anvil forger
anvil maker
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
anxioused up
any Tom
any color
any day
any he
any hour
any minute
any moment
any more
any old way
any one
any road
any time
any time now
any which way
any-kyn
anything but
anything like
anything soever which
anywhere near
ao dai
aoi tsuba
aortic arch
aortic incompetence
aortic insufficiency
aortic stenosis
aortic valve
ap proving
ap-
apache dance
apar-
apart from
apartment building
apartment hotel
apartment house
ape about
ape fissure
ape hand
ape man
ape over
ape-headed
ape-man
ape-men
apel-
apen-
aper-
aperiodic discharge
aperture card
aperture ratio
aperture stop
aperture vignette
apet-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplastic anemia
apo-
apocha trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles’ creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
appalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
appertain to
appetizing store
appian way
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-cheeked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
appleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
apposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
appropriate for
appropriate to
appropriation bill
approval book
approval sheet
approve of
approved school
apricot brandy
apricot palm
aquatic plant
aqueduct bridge
aqueduct of Sylvius
aqueo-
aqueous ammonia
aqueous humor
aqueous humour
aquiline-nosed
quo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitrament of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitae leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
archaeo-
archaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archiepiscopal cross
archil extract
archil liquor
archimedes' screw
archippus butterfly
architect's table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
arcs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-alaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
avenol-areol-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
cargo-
cargo-cuprous sulfide
cargoceo-
cargilo-
cargnous phosphagen
cargle-bargie
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetico-geometric
arithmetico-geometrical
arithmo-
arjun wax
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bander
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
aroint thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrow-slain
arrow-smitten
arrow-toothed
arrow-wood
arrow-wounded
arrowroot family
arroyo grape
arroyo willow
arroz con pollo
ars est celare artem
ars gratia artis
ars longa vita brevis
ars nova
ars poetica
arse licker
arsen-
arsenic acid
arsenic antidote
arsenic bloom
arsenic calciner
arsenic disulfide
arsenic eater
arsenic eating
arsenic glass
arsenic green
arsenic mirror
arsenic mold
arsenic monosulfide
arsenic orange
arsenic refiner
arsenic smelter
arsenic trichloride
arsenic trioxide
arsenic yellow
arsenic-
arsenical babbitt
arsenical pyrite
arsenio-
arsenious acid
arsenious oxide
arseniuretted hydrogen
arseno group
arseno radical
arseno-
arsenous acid
arsenous anhydride
arsenous oxide
arsha rite
art styles
art supervisor
art teacher
art theater
art union
art work
art-colored
art-conscious
art-like
art-minded
artemisia green
arteri-
arterial aneurism
arterial blood
arterial highway
arterial street
arterial transfusion
arterial varix
arterio-
artherosclerotic psychosis
artery forceps
artesian borer
artesian well
artful dodge
artful endearments
arthr-
arthritis deformans
arthritis fungosa
arthritis pauperum
arthro-
artichoke bottom
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articed clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist’s model
artist’s proof
artist-in-residence
artiste-peintre
artistic administrator
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists' canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
aryteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make 'em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn'd snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
as you will
as you wish
as-
asa dulcis
asafetida oil
asarum camphor
asarum oil
asbestos blanket
asbestos board
asbestos braid
asbestos carder
asbestos cement
asbestos cloth
asbestos covering
asbestos crusher
asbestos curtain
asbestos doubler
asbestos felt
asbestos fiber
asbestos filter
asbestos flooring
asbestos lagging
asbestos lining
asbestos listing
asbestos lumber
asbestos paper
asbestos porcelain
asbestos rock
asbestos tile
asbestos toaster
asbestos weaver
asbestos wood
asbestos-coated
asbestos-corrugated
asbestos-covered
asbestos-packed
asbestos-protected
asbestos-welded
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
ascorbic acid
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ash heap
ash hopper
ash key
ash leaf
ash oven
ash pile
ash pole
ash pone
ash pumpkin
ash rock
ash spear
ash staff
ash tray
ash tree
ash wednesday
ash wood
ash-bellied
ash-blond
ash-blue
ash-colored
ash-free
ash-gray
ash-gray blister beetle
ash-leaved
ash-leaved maple
ash-looking
ash-staved
ash-throated
ash-wednesday
ash-white
ashamed of yourself
ashen-hued
ashes in the mouth
ashes to ashes and dust to dust
ashlar brick
ashlar line
ashlar veneer
asian influenza
asiatic cholera
aside from
aside from de
ask a question
ask about
ask after
ask and give no quarter
ask bids for
ask for
ask for it
ask for pity
ask for your hand
ask forgiveness
ask in exchange
ask leave of no man
ask no favors
ask no quarter
ask offers for
ask questions
ask the impossible
asked price
asking bid
asking price
asleep at the switch
asleep in Jesus
asleep in the Lord
asleep on the job
asleep on your feet
asp viper
asparagic acid
asparaginic acid
asparagus bean
asparagus beetle
asparagus broccoli
asparagus fern
asparagus lettuce
asparagus pea
asparagus stone
aspartic acid
aspect ratio
aspen poplar
asphalt cement
asphalt grout
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses' bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignation house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant buyer
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
association test
association time
associative algebra
associative anamnesis
associative neuron
assort with
assume airs
assume command
assume the
assume the guise of
assume the identity of
assume the offensive
assumed bond
assumed name
assumed position
assuming that
assumption of superiority
assure yourself
assured faith
assured of success
assured probity
astable circuit
astasia-abasia
astatic galvanometer
aster daisy
aster family
aster purple
aster ray
aster yellows
asterias swallowtail
asthma herb
asthma paper
asthma weed
asthmatic cigarette
asthmatic wheeze
astigmatic lens
astonishing thing
astr-
astragal Architect
astrakhan cloth
astral body
astral crown
astral influences
astral lamp
astral plane
astral projection
astral ray
astral spirit
astringent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockcrow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death’s door
at demand
at discretion
at each other’s throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at law
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o'clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war 'twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit’s end
at your wits’ end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamasco lily
ate-
atef crown
atef-crown
atelets sauce
atelo-
ater-
athanasian creed
athel tree
athlete’s foot
athlete’s heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
atka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atlo-odontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic age
atomic arsenal
atomic attack
atomic battery
atomic beam
atomic bomb
atomic cannon
atomic chemistry
atomic clock
atomic cluster
atomic cocktail
atomic constants
atomic decay
atomic disintegration
atomic energy
atomic energy plant
atomic engine
atomic explosion
atomic furnace
atomic gun
atomic heat
atomic hydrogen torch
atomic hydrogen welding
atomic hypothesis
atomic mass
atomic mass unit
atomic model
atomic nucleus
atomic number
atomic particle
atomic particles
atomic pile
atomic power
atomic power plant
atomic project
atomic radiation
atomic ray
atomic reaction
atomic research
atomic science
atomic scientist
atomic structure
atomic submarine
atomic theory
atomic units
atomic units and constants
atomic volume
atomic war
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atone for
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atrocious pain
atrocious story
atrophic arthritis
atrophic inflammation
attacca subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attache case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
attend upon
attendance allowance
attendance centre
attendance officer
attendant godling
attendant spirit
attended by
attended with danger
attending physician
attention signal
attention span
attention to detail
attention to fact
attention-getting
attenuation charge
attested copy
attic order
attic room
attic story
attitude art
attitude-control rocket
atto-
attorney general
attorney generals
attorney in fact
attorney-at-law
attorney-generalship
attorney-in-fact
attorneys general
attorneys-at-law
attorneys-in-fact
attract attention
attract notice
attract your interest
attracted to
attracted-disk
attraction cone
attraction sphere
attractive nuisance
attributable to
attribute to
attributed to
atypical pneumonia
au beurre fondu
au beurre noire
au beurre roux
au bleu
au contraire
au courant
au fait
au fond
au fromage
au gras
au gratin
au jus
au kirsch
au lait
au maigre
au naturel
au pair
au pair girl
au pied de la lettre
au reste
au revoir
au vert pre
au vin blanc
au vol
aubergine purple
auburn-haired
auction agent
auction block
auction bridge
auction euchre
auction hearts
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
audio sound system
audio transmitter
audio truck
audio-
audio-IF oscillator
audio-frequency
audio-frequency amplification
audio-frequency amplifier
audio-frequency circuit
audio-frequency detector
audio-frequency oscillator
audio-frequency tube
audio-visual
audio-visual aids
audio-visually
audit ale
audit book
audit certificate
audit date
audit house
audit office
audit room
auditor-general
auditors-general
auditory amnesia
auditory aphasia
auditory apparatus
auditory canal
auditory effect
auditory impairment
auditory meatus
auditory nerve
auditory organ
auditory ossicles
auditory phenomenon
auditory phonetics
auditory range
auditory sense
auditory stimulus
auditory tube
auditory vesicle
auf Wiedersehen
auf wiederschen
augen-gabbro
augen-gneiss
auger bit
auger box
auger crank
auger drill
auger feed
auger handle
auger hole
auger lathe
auger machine
auger press
auger shell
auger stem
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automanal system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
automatic plotter
automatic premium loan
automatic printer
automatic range finder
automatic reaction
automatic response
automatic rifle
automatic screw machine
automatic sight
automatic sprinkler
automatic stability
automatic stop
automatic switch
automatic technician
automatic technology
automatic telegraph
automatic telephone
automatic telephone exchange
automatic telephone system
automatic tracking
automatic transmission
automatic trip
automatic typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
automotive engineer
automotive engineering
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autos serum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autumnal equinox
autumnal point
aux abois
aux aguets
aux armes
aux fines herbes
auxiliary boat
auxiliary equation
auxiliary language
auxiliary note
auxiliary power unit
auxiliary rafter
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
avoirdupois pound
avoirdupois weight
avowed Communist
aw-
awake a doubt
awake a suspicion
awake the dead
awake the echoes
awake to
awake to life immortal
awaken the memory
awaken the mind
awaken the thoughts
awaken to
award wage
award winner
aware of
away back
away from
away from home
away from the point
away off
away with you
away-going
away-going crop
awe-awakening
awe-band
awe-bound
awe-commanding
awe-compelling
awe-filled
awe-inspired
awe-inspiring
awe-inspiringly
awe-stricken
awe-strike
awe-struck
awful silence
awful-eyed
awful-gleaming
awful-looking
awful-voiced
awkward age
awkward person
awkward squad
awl bird
awl-fruited
awl-leaved
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awnless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
aza-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseilline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-penciled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azurite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbit metal
babbitt metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies'-breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
baby buggy
baby bunting
baby carriage
baby clothes
baby eyes
baby face
baby farm
baby farmer
baby farming
baby fern
baby grand
baby grand piano
baby heathberry
baby jib topsail
baby kisser
baby lace
baby linen
baby orchid
baby pin
baby pink
baby primrose
baby rambler
baby ribbon
baby seal
baby sitter
baby snatcher
baby split
baby spot
baby spotlight
baby step
baby talk
baby tears
baby threader
baby tooth
baby walker
baby's breath
baby's-breath
baby's-slippers
baby-blue-eyes
baby-browed
baby-doll
baby-face
baby-faced
baby-featured
baby-kissing
baby-sat
baby-sit
baby-sitter
baby-sitting
baby-sized
baby-snatching
baby-tears
bacalao bird
baccalaureate sermon
baccalaureate service
bach it
bachelor button
bachelor chest
bachelor girl
bachelor party
bachelor perch
bachelor's button
bachelor's degree
bachelor's gown
bachelor's-button
bachelor's-buttons
bachelor-at-arms
bachelors-at-arms
bacillary dysentery
bacillary white diarrhoea
back action
back air pipe
back airing
back anchor
back and fill
back and forth
back answer
back away
back balance
back band
back bar
back beam
back bench
back bender
back block
back boiler
back bond
back center
back check
back choir
back clearance
back cloth
back comb
back country
back crawl
back current
back debts
back dive
back door
back down
back draft
back eccentric
back electromotive force
back end
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back scratcher
back scratching
back seat
back shaft
back shop
back shutter
back side
back sinew
back slang
back staff
back stairs
back step
back stop
back straight
back strapper
back stream
back street
back stretch
back swath
back swimmer
back talk
back tendon
back the wrong horse
back to back
back track
back trail
back turn
back two-thirds
back up
back vent
back venting
back water
back way
back when
back yard
back-
back-acting
back-acting steam engine
back-action steam engine
back-alley
back-and-forth
back-angle
back-bencher
back-berend
back-biting
back-blocker
back-blowing
back-board
back-breaking
back-breathing
back-broken
back-burner
back-check
back-cloth
back-clots
back-coming
back-connected
back-connected switch
back-country
back-door
back-drawing
back-drawn
back-end
back-face
back-facing
back-fanged
back-fence gossip
back-filleted
back-fire
back-flowing
back-flung
back-focused
back-formation
back-geared
back-glancing
back-going
back-hand
back-handed
back-handed compliment
back-hander
back-lash
back-leanining
back-light
back-lighted
back-lighting
back-list
back-lit
back-log
back-looking
back-lying
back-making
back-number
back-paddle
back-paint
back-palm
back-pedal
back-pedaled
back-pedaling
back-pedalled
back-pedalling
back-piece
back-plaster
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scraper
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrator
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backstay stools
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
badger bird
badger dog
badger game
badger plane
badger skunk
badger-legged
badging hook
badly off
badminton court
badminton cup
bae-
baeberry bark
baffle board
baffle description
baffle gate
baffle painting
baffle plate
baffling problem
baffling wind
bag and baggage
bag bearer
bag beater
bag boom
bag bundler
bag cap
bag clasp
bag cleaner
bag cutter
bag dryer
bag feeder
bag filler
bag filter
bag fitter
bag folder
bag fox
bag frame
bag framer
bag holder
bag house
bag loader
bag machinist
bag maker
bag marker
bag mender
bag net
bag of bones
bag of tricks
bag of wind
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stacker
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
bal masque
balaclava helmet
balance accounts
balance adjuster
balance arm
balance beam
balance bob
balance bridge
balance clerk
balance cock
balance coil
balance crane
balance dock
balance electrometer
balance fish
balance frame
balance gate
balance in hand
balance income with outgo
balance level
balance link
balance lug
balance maker
balance of nature
balance of payments
balance of power
balance of precision
balance of trade
balance pin
balance piston
balance pit
balance plane
balance rail
balance reef
balance ring
balance rope
balance rudder
balance rynd
balance screw
balance sheet
balance spring
balance staff
balance step
balance the books
balance valve
balance watch
balance weight
balance wheel
balanced diet
balanced fund
balanced line
balanced personality
balanced rudder
balanced sentence
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
bale buckle
bale conveyor
bale feeder
bale goods
bale hook
bale jumper
bale marker
bale opener
bale out
bale stick
bale stitcher
bale strap
bale tie
bale tier
bale-fire
baleen whale
baling machine
balk at
balk day
balk line
balk-line game
balky horse
ball and chain
ball and ring
ball bearing
ball boy
ball breaker
ball cactus
ball cartridge
ball caster
ball clay
ball club
ball cock
ball fern
ball foot
ball game
ball gentle
ball grinder
ball gudgeon
ball handle
ball indicator
ball ironstone
ball joint
ball lever
ball lightning
ball mill
ball moss
ball mustard
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball seater
ball smut
ball snake
ball stitch
ball tap
ball the jack
ball thistle
ball top
ball turret
ball up
ball valve
ball-and-claw foot
ball-and-socket joint
ball-bearing
ball-carrier
ball-flower
ball-hooter
ball-jasper
ball-park
ball-peen hammer
ball-planting
ball-point
ball-point pen
ball-shaped
ball-thrombus
ball-turret gun
ballad horn
ballad maker
ballad making
ballad measure
ballad meter
ballad metre
ballad opera
ballad poetry
ballad reciter
ballad rhyme
ballad singer
ballad singing
ballad stanza
ballad style
ballad writer
ballast brakesman
ballast car
ballast cleaner
ballast crusher
ballast engine
ballast fin
ballast ganger
ballast heaver
ballast hole
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballet slippers
ballet suite
ballets blancs
balli buntl
ballibuntl hat
balling furnace
balling gun
balling head
balling iron
ballistic camera
ballistic capsule
ballistic galvanometer
ballistic pendulum
ballistic trajectory
ballistic wind
ballon d'essai
ballon-sonde
ballonet ceiling
ballons d'essai
balloon ball
balloon barrage
balloon bed
balloon chuck
balloon clock
balloon cloth
balloon fabric
balloon feather
balloon foresail
balloon frame
balloon framing
balloon in
balloon jib
balloon sail
balloon seat
balloon sickness
balloon sleeve
balloon tire
balloon trainshed
balloon tyre
balloon vine
balloon-berries
balloon-berry
ballooning in
ballooning spider
ballot box
ballot paper
ballot-box stuffer
ballot-box stuffing
balloting place
ballpoint pen
ballroom dance
ballroom dancer
ballroom dancing
ballroom music
balls-up
bally gum
ballyhoo man
balm apple
balm cottonwood
balm cricket
balm dew
balm fir
balm leaf
balm mint
balm of Gilead
balm of gilead
balm oil
balm pine
balm shrub
balm tea
balm wine
balm-apple
balm-breathing
balm-cricket
balm-leaved
balm-shed
balmy sleep
balsa raft
balsam apple
balsam bog
balsam capivi
balsam copaiba
balsam cucumber
balsam fig
balsam fir
balsam flowers
balsam groundsel
balsam herb
balsam hickory
balsam of Mecca
balsam of Peru
balsam of fir
balsam of peru
balsam of tolu
balsam pear
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
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baluster column
baluster measure
baluster shaft
baluster stem
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banana boa
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banana family
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banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
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band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
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band screen
band shell
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band steel
band theory of solids
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band wheel
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bandar-log
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banded purple
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bandied about
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bandy about
bandy leg
bandy legsbow-legged
bandy with
bandy words
bandy-bandy
bandy-legged
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bang beggar
bang into
bang off
bang on
bang up
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bang-up
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bangtail muster
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banister-back
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banjo-zither
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bank brakesman
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bank cashier
bank charter
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bank claim
bank clearings
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bank fisheries
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bank foreman
bank gravel
bank guaranty
bank guard
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bank heading
bank holiday
bank indicator
bank inspector
bank jug
bank laborer
bank ledger
bank letter
bank loan
bank manager
bank martin
bank messenger
bank molder
bank money
bank night
bank note
bank oddman
bank of issue
bank officer
bank on
bank overman
bank paper
bank post bill
bank president
bank ranger
bank rate
bank receipt
bank receiver
bank reference
bank repairer
bank report
bank reserve
bank return
bank robber
bank robbery
bank roll
bank run
bank shot
bank sill
bank smack
bank statement
bank stock
bank superintendent
bank swallow
bank teller
bank tender
bank the fire
bank thistle
bank up
bank upon
bank vole
bank walker
bank water
bank weigher
bank winding
bank woman
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bank-full
bank-high
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bank-side
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bank-wound
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banker's bill
banker's card
baptism in the spirit
baptism of fire
baptismal dress
baptismal font
baptismal gown
baptismal name
baptismal regeneration
baptismal robe
bar beat
bar bell
bar billiards
bar bit
bar cent
bar chart
bar chuck
bar code
bar discharger
bar fee
bar fly
bar foot
bar gemel
bar girl
bar gown
bar graph
bar iron
bar joist
bar keel
bar line
bar magnet
bar mitzvah
bar mizvah
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
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bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
barber bug
barber chair
barber college
barber pole
barber's basin
barber's chair
barber's itch
barber's pole
barber's shop
barber-bug fever
barber-surgeon
barberry family
barberry fig
barberry rust
barbershop chords
barbershop harmony
barbette carriage
barbette gun
barbital sodium
barbiturate addiction
barbiturate pill
barbituric acid
bare as the back of your hand
bare cupboard
bare fact
bare fallow
bare flesh
bare minimum
bare necessities
bare of
bare pole
bare possibility
bare skin
bare subsistence
bare sufficiency
bare suggestion
bare your fangs
bare-ankled
bare-armed
bare-ass
bare-assed
bare-backed
bare-bitten
bare-boned
bare-bosomed
bare-branched
bare-breasted
bare-chested
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
barge boom
barge canal
barge couple
barge course
barge in
barge into
barge rig
barge spike
barge stone
barge-board
barge-couple
barge-course
barge-laden
barge-rigged
barge-stone
baritone clef
barium bromate
barium carbonate
barium chloride
barium chromate
barium chrome
barium dioxide
barium enema
barium hydrate
barium hydroxide
barium meal
barium monoxide
barium nitrate
barium oxide
barium peroxide
barium protoxide
barium stearate
barium sulfate
barium sulfide
barium sulphate
barium sulphide
barium thiosulfate
barium yellow
bark at
bark at the moon
bark beetle
bark blazer
bark canker
bark chopper
bark cloth
bark conveyer
bark crusher
bark disease
bark dryer
bark extract
bark feeder
bark gouge
bark grafting
bark grinder
bark house
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
bark-bared
bark-cutting
bark-formed
bark-galled
bark-galling
bark-grinding
bark-shredding
bark-tanned
barkhausen effect
barking bill
barking deer
barking drum
barking frog
barking iron
barley broth
barley cake
barley candy
barley carrier
barley cleaner
barley clipper
barley coal
barley crusher
barley flour
barley fork
barley grass
barley mill
barley reel
barley scald
barley scourer
barley smut
barley straw
barley stripe
barley sugar
barley water
barley wine
barley-break
barley-bree
barley-broo
barley-cap
barley-clipping
barley-corn
barley-fed
barley-grinding
barley-hood
barley-hulling
barley-sugar
barn cake
barmy beer
barn boards
barn dance
barn door
barn door skate
barn fowl
barn gallon
barn grass
barn gun
barn lantern
barn owl
barn raising
barn sash
barn swallow
barn-brack
barn-door
barn-door fowl
barn-door hanger
barn-door roller
barn-door skate
barn-door stay
barn-raising
barnacle goose
barnacle grass
barnacle scale
barnacle-back
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
barometer gauge
barometer paper
barometric error
barometric gradient
barometric pressure
barometric switch
barometric wind rose
baron bailie
baron court
baron et femme
baron of beef
baroque formalism
baroque formalist
baroque organ
barrack emperors
barrack roof
barracks bag
barracks lawyer
barrage balloon
barrage receiver
barrage reception
barrage rocket
barred owl
barred spiral
barred spiral galaxy
barred spiral nebula
barrel amalgamation
barrel arch
barrel bolt
barrel bulk
barrel cactus
barrel chair
barrel chest
barrel contractor
barrel copper
barrel cuff
barrel distortion
barrel drain
barrel driver
barrel engine
barrel fish
barrel gentian
barrel header
barrel helm
barrel hoop
barrel house
barrel knot
barrel maker
barrel of money
barrel organ
barrel packer
barrel palm
barrel pen
barrel pier
barrel process
barrel quartz
barrel repairer
barrel roll
barrel roof
barrel saw
barrel scale
barrel sewer
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrer-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
barrow boy
barrow tram
barrow truck
barrow-boy
barrow-man
barrow-men
barry-bendy
barry-nebuly
barry-pily
barry-wavy
bars gemels
barter economy
barter unit
barycentric coordinate system
baryon number
baryta feldspar
baryta paper
baryta water
baryta white
baryta yellow
baryto-
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bas bleus
bas mitzvah
bas-fond
bas-relief
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basal body
basal conglomerate
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basal metabolism
basal ridge
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basal-nerved
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basalt quarrier
basalt-porphyry
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bascule bridge
bascule escapement
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base animals
base bend
base block
base box
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base bullion
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base camp
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base circle
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base-burner
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base-spiritedness
base-witted
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baseball cap
baseball field
baseball glove
baseball mitt
baseball rounders
baseball season
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basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
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bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
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basic dress
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basic facts
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basic process
basic proposition
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basic salary
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basis bundle
basis for belief
basis rate
basis weight
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bask in the sun
bask in the sunshine
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basket bearer
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basket cells
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basket-star
basketball court
basketball season
basking shark
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bass-viol
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basset oboe
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basset-horn
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bassi profundi
bassi-rilievi
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basso cantante
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
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bathyal zone
batiator root
batracho-
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bats in the belfry
bats-in-the-belfry
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batswing coral
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batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
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batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
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battery maker
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battery supply voltage
battery tester
battery wagon
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battle lantern
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battle wagon
battle word
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<td>bay leaf</td>
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<tr>
<td>bay lynx</td>
</tr>
<tr>
<td>bay mackerel</td>
</tr>
<tr>
<td>bay mahogany</td>
</tr>
<tr>
<td>bay mare</td>
</tr>
<tr>
<td>bay myrtle</td>
</tr>
<tr>
<td>bay oak</td>
</tr>
<tr>
<td>bay oil</td>
</tr>
</tbody>
</table>
be Greek to
be OK
be a bargain
be a bear for
be a cold fish
be a coward
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sideliner
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be born
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative  
be considerate  
be consistent  
be conspicuous  
be constituted by  
be construed as  
be consumed  
be consumed with desire  
be contained in  
be contemptuous of  
be content  
be content with  
be contiguous  
be contingent  
be contingent on  
be continuous  
be contrary to  
be conversant with  
be converted  
be converted into  
be convicted  
be convinced  
be convincing  
be convulsed with laughter  
be correct  
be courteous  
be covetous of  
be credulous  
be crestfallen  
be crowned with success  
be cruel to be kind  
be crushed  
be curious  
be damaged  
be damned  
be damp  
be dark  
be dated  
be dead  
be dead and gone  
be deaf  
be death on  
be deceived  
be defeated  
be demonstrable  
be dependent on  
be deserving  
be desirous of
be despaired of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
be determined
be diagnostic of
be difficult
be diffident
be dilatory
be disagreeable
be disappointed
be disappointing
be discovered
be discriminating
be disenchanted
be disgraced
be dishonest
be disillusioned
be disorderly
be disposed to
be disrespectful
be dissonant
be distant
be distasteful
be distinct
be distinguished
be doing
be done for
be doomed
be doubly punished
be doubtful
be down on
be downbeat
be dressed in
be driven
be driven into a corner
be drunk
be dry
be dubious
be due
be due to
be dumb with grief
be dying for
be dying to
be eager
be eager about
be earless
be earlier
be early
be easy
be easy in your mind about
be easy of belief
be easy of persuasion
be easy on
be easy to recall
be easy with
be eaten away
be eating someone
be effective
be effortless
be elastic
be eloquent
be embarrassed
be employed
be employed in
be energetic
be enfeoffed of
be enfranchised
be engaged
be engaged in
be engrossed in
be enthusiastic
be entitled to
be envious of
be equal to
be eradicated
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incommunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be instated
be instrumental
be insufficient
be intelligent
be intelligible
be intemperate
be intimate
be into
be intoxicated
be invisible
be involved
be irrefutable
be irreligious
be irresolute
be it so
be jealous
be jealous of your good name
be jealous of your repute
be jobber for
be joined
be judged
be judgmental
be judicious
be just
be just like one
be just like you
be just right
be just the thing
be just the ticket
be just what the doctor ordered
be keen
be kept waiting
be killed
be kind
be knocked up
be known as
be known by
be lacking
be laid by the heels
be last off the mark
be late
be late off the mark
be latent
be lawless
be learned
be learned in
be led to believe
be left
be left at the post
be left at the starting gate
be left behind
be left over
be lengthy
be lenient
be let down
be liable
be liable for
be liberal with
be light
be like
be likely
be limited by
be listened to
be livid
be loaded
be located
be logical
be long
be long in the tooth
be long of the market
be loquacious
be lost
be lost in thought
be loving
be low
be lucky
be made one
be made public
be magnetic
be manifest
be master
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be on your feet
be on your good behavior
be on your guard
be on your last legs
be on your mettle
be on your mind
be on your uppers
be on your way
be one all over
be open to
be operative
be opposed to
be opposite
be optimistic
be ordained
be ostentatious
be otherwise occupied
be out for blood
be out of all patience
be out of it
be out of line
be out of step
be out of the running
be out of the woods
be out of your depth
be out of your mind
be outdistanced
be outrun
be over
be overdue
be overfamiliar with
be overpossessive
be overpriced
be pacifistic
be paid
be painless
be painstaking
be parallel
be paralyzed with fear
be parsimonious
be partial to
be partners in
be past
be patient
be pensioned
be pensioned off
be permissive
be permitted
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be possessive
be possible
be practical
be precise
be predicated on
be predisposed
be pregnant
be prejudiced
be preoccupied
be prepared
be present
be present at
be present in
be printed
be prior
be probable
be profligate with
be productive
be profitable
be prolonged
be prominent
be promiscuous
be promising
be proof against
be prosperous
be proud
be proud of
be proved
be pungent
be punished
be pushed to the wall
be put out of countenance
be put out to pasture
be put to the blush
be put to your wit's end
be putty in the hands of
be qualified
be quiet
be quits
be quits with
be rash
be ravenous
be ready
be ready and waiting
be ready for
be realized
be reasonable
be received
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be strapped
be stricken
be stricken by
be strict
be stricken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be uninteresting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unprepared
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsociable
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
beach apple
beach aster
beach bag
beach ball
beach bird
beach boat
beach buggy
beach bum
beach clam
beach crab
beach cusp
beach drifting
beach flea
beach goldenrod
beach grass
beach heather
beach pea
beach plant
beach plover
beach plum
beach ridge
beach robin
beach strawberry
beach tan
beach umbrella
beach wagon
beach wormwood
beach-la-mar
beach-sap
beaching gear
beacon boat
beacon fire
beacon lights
beacon station
bead and reel
bead edging
bead furnace
bead lightning
bead molding
bead plane
bead plant
bead slick
bead snake
bead tree
bead-eyed
bead-hook
bead-like
bead-roll
bead-rubies
bead-ruby
bead-shaped
beaded brow
beaded lizard
beaded with sweat
beaded-edge
beading plane
beading tool
beads of sweat
beady-eyed
beak flute
beak molding
beak rush
beak sedge
beak wattles
beak willow
beak-bearing
beak-head
beak-iron
beak-like
beak-nosed
beak-shaped
beaked salmon
beaked whale
beaker culture
beaker folk
beakhorn stake
beaking joint
beam aerial
beam anchor
beam antenna
beam arm
beam board
beam brick
beam bridge
beam caliper
beam center
beam clamp
beam compass
beam engine
beam fill
beam filling
beam hole
beam knee
beam knife
beam light
beam maker
beam mill
beam net
beam of light
beam plate
beam pump
beam reach
beam riding
beam roll
beam sea
beam tetrode
beam texture
beam transmission
beam trawl
beam trawler
beam trawling
beam tree
beam well
beam wind
beam-bending
beam-end
beam-ends
beam-power tube
beam-straightening
beam-switching tube
beam-tree
beaming knife
beaming machine
bean anthracnose
bean aphid
bean aphis
bean ball
bean beetle
bean blight
bean blower
bean cake
bean caper
bean clover
bean crake
bean curd
bean cutworm
bean dolphin
bean flour
bean goose
bean harvester
bean hole
bean honey
bean house
bean king
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean thresher
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeeters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-foots
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darnel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
bearer bond
bearer certificate
bearer of glad tidings
bearer plate
bearer security
bearer-off
bearing arms
bearing arrow
bearing bar
bearing block
bearing bow
bearing brass
bearing bronze
bearing cloth
bearing door
bearing gear
bearing in mind
bearing metal
bearing neck
bearing note
bearing out
bearing pile
bearing plate
bearing rail
bearing rein
bearing ring
bearing robe
bearing steel
bearing sword
bearing timber
bearing wall
bearish market
bearish prices
bearnaise sauce
bearskin gray
bearskin jobber
bearskin rug
beast epic
beast fable
beast fly
beast god
beast of burden
beast of prey
beast tale
beasts of field
beasts of prey
beasts of venery
beat a dead horse
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beche-le-mar
beck and call
becket bend
becket knot
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
become fixed
become higher
become informed
become insolvent
become known
become larger
become lost to sight
become manifest
become nervous
become obsolete
become of
become old
become one
become overweight
become popular
become public
become pulverized
become red
become shallow
become sick
become sponsor for
become suicidal
become the rage
become unintoxicated
become versed in
become visible
become void
become weak
become well-versed in
becquerel ray
becuiba fat
bed ale
bed and board
bed and breakfast
bed bolt
bed chair
bed check
bed curtain
bed down
bed fuel
bed head
bed hinge
bed in
bed jacket
bed joint
bed lamp
bed lathe
bed light
bed linen
bed maker
bed mold
bed molding
bed moulding
bed of Procrustes
bed of roses
bed on
bed pad
bed piece
bed place
bed plane
bed reach
bed rest
bed rot
bed sandwort
bed sheet
bed shoes
bed slat
bed sore
bed steps
bed stone
bed tea
bed timber
bed tray
bed vein
bed wagon
bed warmer
bed-clothes
bed-davenport
bed-fere
bed-head
bed-maker
bed-sitter
bed-sitting room
bed-sitting-room
bed-wetting
bedbug hunter
bedda nut
bedding block
bedding course
bedding fault
bedding plane
bedding plant
beddy-bye
bedford cord
bedlam beggar
bedlam cowslip
bedlington terrier
bedridden invalid
bedrock valley
bedroom eyes
bedroom slipper
bedroom suburb
bedside manner
bedsitting room
bedspring type
bedstead fitter
bedstead wrench
bedstraw bellflower
bedtime prayer
bedtime story
bee balm
bee beetle
bee bird
bee block
bee brush
bee candy
bee cellar
bee culture
bee eater
bee escape
bee feed
bee fly
bee glue
bee gum
bee hawk
bee in the bonnet
bee in the head
bee in your bonnet
bee killer
bee kite
bee larkspur
bee laurel
bee louse
bee martin
bee milk
bee moth
bee nettle
bee orchid
bee orchis
bee plant
bee sage
bee scap
bee smoker
bee space
bee tree
bee wine
bee wolf
bee's knees
bee-butt
bee-eater
bee-headed
bee-loud
beech agaric
beech cherry
beech coal
beech family
beech fern
beech leaf snake
beech marten
beech mast
beech oil
beech tree
beech wheat
beech-green
beech-seedling mildew
beechnut oil
beechwood creosote
beef Bourguignon
beef Bourguignonne
beef Wellington
beef apple
beef bouillon
beef bread
beef cattle
beef dodger
beef extract
beef ham
beef juice
beef marrow
beef road
beef stearin
beef stroganoff
beef tallow
beef tea
beef up
beef's blood
beef-brained
beef-eating
beef-faced
beef-steak
beef-suet tree
beef-witted
beef-wittedly
beef-wittedness
beef-wood
beefed-up
beefing-up
beefsteak begonia
beefsteak fungus
beefsteak geranium
beefsteak plant
beefsteak saxifrage
beefwood family
beehive coke
beehive house
beehive kiln
beehive oven
beehive shelf
beehive tomb
beetle brow
beetle over
beetle-browed
beetle-crusher
beetle-green
beetle-headed
beetling machine
befit the occasion
befit the season
befit the time
before Christ
before all
before an audience
before everything
before its time
before long
before noon
before now
before one
before the Christian Era
before the Common Era
before the Fall
before the Flood
before the bar
before the bench
before the court
before the fact
before the footlights
before the house
before the judge
before the mast
before the war
before the wind
before your eyes
before your face
before your time
before your very eyes
before-cited
before-created
before-delivered
before-going
before-known
before-mentioned
before-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before-warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-lice
beggar's-tick
beggar's-ticks
beggar-lice
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beggar-ticks
beggarly fellow
begging hermit
begging hermits
begging the question
begin again
begin to
beginner's luck
beginning and end
beginning of the end
begonia family
begonia rose
beguile of
beguile out of
beguile the time
behave ill
behave self-destructively
behave toward
behave yourself
behavior modification
behavior pattern
behavior psychology
behavior therapist
behavior therapy
behavioral norm
behavioral science
behavioral scientist
behavioristic psychology
behaviour therapy
behavioural science
behen oil
behenic acid
behenolic acid
behind bars
behind closed doors
behind the curtain
behind the eight ball
behind the eightball
behind the scenes
behind the times
behind the veil
behind the veil of secrecy
behind time
behind your back
behind your defenses
behind-the-scenes influence
behind-the-scenes operator
behind-the-scenes pressure
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accoil
bel-esprit
belay that
belay there
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
bell-house
bell-less
bell-like
bell-magpie
bell-metal
bell-metal ore
bell-mouthed
bell-nosed
bell-ringer
bell-shaped
bell-tongue
bell-up
bell-wether
belladonna lily
belladonna ointment
belle époque
belle poque
belle tournure
belles lettres
belles-lettres
bellflower family
belli causa
bellow like a bull
bellow out
bellows blower
bellows boy
bellows engine
bellows fish
bellows maker
bellows mender
bellows pneumatic
bellows treader
bells of Ireland
belly ache
belly board
belly brace
belly buster
belly button
belly dance
belly dancer
belly dancing
belly doublet
belly flop
belly flopper
belly friend
belly gunner
belly guy
belly landing
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-hand
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
belted kingfisher
belted knight
belted radial tire
belted sandfish
belted-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
bench-legged
bench-made
bench-mark
bench-warmer
benching iron
bend an ear
bend an ear to
bend attention to
bend back
bend dexter
bend leather
bend might and main
bend over
bend over backward
bend over backwards
bend pipe
bend sinister
bend the elbow
bend the eyes
bend the head
bend the knee
bend the knee to
bend the mind
bend the mind to
bend the mind upon
bend the neck
bend the thoughts to
bend the truth
bend to
bend to your will
bend to your yoke
bend your course
bend your ear
bend your effort
bend your steps
bend your steps for
bend your steps to
bending moment
bending press
bending punch
bending shackle
bending the knee
bending works
bends, the
bendy tree
bendy-wavy
bene vale
beneath contempt
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
beneficiary heir
benefit association
benefit club
benefit from
benefit of clergy
benefit performance
benefit society
benefits forgot
benevolent despotism
benzoyl hydride
benzoyl peroxide
benzoyl radical
benzyl acetate
benzyl alcohol
benzyl benzoate
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
berg crystal
berg ice
berg till
berg wind
bergamot camphor
bergamot mint
bergamot oil
bergamot orange
bergy bit
beriberi heart
bering time
berlin eye
berlin head
berlin wool
berlin-landaulet
berline-landaulet
bermuda grass
bermuda rig
bermuda shorts
bermese mountain dog
bernicle goose
berry alder
berry cone
berry ladle
berry patch
berry pepper
berry pie
berry spoon
berry tree
berry-bearing
berry-brown
berry-formed
berry-on-bone
berry-shaped
berrybone fish
berth cargo
berth deck
bertillon system
beryl blue
beryl green
beryl-blue
beryl-green
beryllium bronze
beryllium copper
beryllium oxide
bes antler
bes-
bes-antler
beset with danger
besetting sin
beside the mark
beside the point
beside the question
beside yourself
beside yourself with joy
besom moss
bessemer converter
bessemer process
best bet
best bib and tucker
best bower
best clothes
best end
best friend
best girl
best love
best man
best part
best people
best regards
best room
best seller
best type
best wishes
best, the
best-able
best-abused
best-accomplished
best-agreeable
best-armed
best-ball
best-ball foursome
best-ball match
best-beloved
best-bred
best-built
best-clad
best-conditioned
best-conducted
best-considered
best-consulted
best-cultivated
best-dressed
best-established
best-esteemed
best-formed
best-graced
best-grounded
best-hated
best-humored
best-informed
best-intentioned
best-known
best-laid
best-learned
best-liked
best-loved
best-made
best-managed
best-meaning
best-meant
best-minded
best-natured
best-nourishing
best-paid
best-paying
best-pleasing
best-preserved
best-principled
best-read
best-resolved
best-selling
best-sighted
best-skilled
best-tempered
best-trained
bestir yourself
bestow consideration upon
bestow honor upon
bestow on
bestow thought upon
bestow your affections on
bestow your hand upon
bet against
bet on
bet upon
bet your boots
bet your bottom dollar
bet your bottom dollar on
beta brass
beta decay
beta function
beta globulin
beta iron
beta particle
beta radiation
beta radiator
beta ray
beta rhythm
beta test
beta transformation
beta-amylase
beta-eucaine
beta-glucose
beta-indoleacetic acid
beta-naphthol
beta-naphthyl
beta-naphthyl benzoate
beta-naphthyl group
beta-naphthyl radical
beta-naphthyl salicylate
beta-naphthylamine
beta-orcin
beta-orcinol
beta-ray spectrograph
beta-ray spectrometer
betake yourself
betake yourself to
bete noire
betel nut
betel palm
betel pepper
betel phenol
bethink yourself
bethink yourself of
betray a confidence
betray itself
betray yourself
betrayed hope
better days
better for
better half
better off
better part
better self
better sort
better than nothing
better thoughts
better world
better yourself
better-advised
better-affected
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bhut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicuspid valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bicyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
bien cuit
bien entendu
bier right
bifurcation theory
big Chief
big Daddy
big White Chief
big as you please
big baby
big bag of wind
big band
big bang theory
big battalions
big bedbug
big ben
big bluestem
big boss
big boy
big brother
big bruise
big bug
big business
big businessman
big casino
big cat
big cheese
big chief
big deal
big dipper
big drink
big drunk
big end
big game
big game hunter
big gun
big hand
big heart
big hit
big hook
big house
big idea
big laurel
big league
big lie
big man
big man on campus
big marigold
big mouth
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-hearted
big-hoofed
big-jawed
big-laden
big-leaf ivy
big-leaf laurel
big-leaf maple
big-league
big-leaguer
big-leaved
big-leaved magnolia
big-looking
big-mouthed
big-name
big-nosed
big-note
big-rich
big-souled
big-sounding
big-swollen
big-ticket
big-time
big-time operator
big-time spender
big-timer
big-voiced
big-waisted
bigeye scad
bigger half
biggest frog in the pond
bighorn sheep
biglip sucker
bigmouth buffalofish
bihar tree
biik tooling
bilateral symmetry
bile acid
bile cyst
bile duct
bile pigment
bile salt
bile vessel
bilge block
bilge board
bilge coad
bilge keel
bilge keelson
bilge log
bilge piece
bilge pump
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
bilingual edition
bilingual text
bilious cholera
bill and coo
bill book
bill broker
bill case
bill clerk
bill collector
bill discounter
bill discounting
bill file
bill of account
bill of adventure
bill of attainder
bill of complaint
bill of draft
bill of entry
bill of exchange
bill of fare
bill of goods
bill of health
bill of indictment
bill of lading
bill of mortality
bill of particulars
bill of rights
bill of sale
bill-and-cooers
bill-broker
bill-hook
bill-like
bill-patched
bill-shaped
billet at
billet boy
billet breaker
billet car
billet chipper
billet cutter
billet heater
billet man
billet piler
billet rolls
billet wheeler
billet worker
billet-doux
billets-doux
billiard ball
billiard cloth
billiard cue
billiard green
billiard match
billiard parlor
billiard player
billiard room
billiard table
billing and cooing
billing machine
billion-dollar grass
billow cloud
billowy cloud
billy check
billy club
billy fairplay
billy gar
billy gate
billy goat
billy owl
billy playfair
billy tea
billy-button
billy-goat
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bind day
bind off
bind over
bind rail
bind up
bind yourself to
bind-days
binder board
binder course
binder pulley
binder twine
binder's board
binder's cloth
binder's title
bindi-eye
binding agreement
binding arbitration
binding course
binding edge
binding energy
binding off
binding over
binding post
binding rafter
binding receipt
binding screw
binding stone
binding strake
binding tape
binding twine
bindle stiff
bindweed nightshade
binet-simon scale
binnacle list
binocular fusion
binocular microscope
binodal quartic
binomial coefficient
binomial distribution
binomial name
binomial nomenclature
binomial series
binomial theorem
bio-
bio-aeration
bio-assay
bio-economic
bio-electric
bio-electrogenesis
bio-energetics
bio-osmosis
bio-osmotic
biochemical oxygen demand
biographical dictionary
biographical material
biographical records
biographical sketch
biological adjutive reactions
biological classification
biological clock
biological control
biological death
biological diagnosis
biological evolution
biological method
biological oxygen demand
biological product
biological science
biological sociology
biological species
biological stain
biological supplies
biological taxonomy
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird life
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird of paradise
bird of passage
bird of peace
bird of prey
bird pepper
bird pest
bird plant
bird pox
bird preserver
bird rattle
bird refuge
bird sanctuary
bird seed
bird shop
bird shot
bird skin
bird snake
bird song
bird sound
bird spider
bird strike
bird suffer
bird table
bird thistle
bird tick
bird vetch
bird watcher
bird whistle
bird young
bird's beak
bird's egg
bird's mouth
bird's nest
bird's nest soup
bird's-eye
bird's-eye maple
bird's-eye primrose
bird's-eye view
bird's-eyes
bird's-foot
bird's-foot fern
bird's-foot trefoil
bird's-foot violet
bird's-foots
bird's-nest
bird's-nest fern
bird's-nest fungus
bird's-nest orchid
bird's-nest soup
bird-battling
bird-brained
bird-cage
bird-dog
bird-dogged
bird-dogging
bird-egg pea
bird-eyed
bird-faced
bird-fingered
bird-foot
bird-feet
bird-in-the-bush
bird-lime
bird-nest
bird-nesting
bird-of-paradise bush
bird-of-paradise flower
bird-ridden
bird-voiced tree frog
bird-watch
bird-watcher
bird-witted
birdcage clock
birding piece
birds of a feather
birds-in-the-bush
birdseed grass
birdseed rape
birth canal
birth certificate
birth control
birth control device
birth control pill
birth controller
birth date
birth defect
birth flower
birth gift
birth hour
birth month
birth name
birth pain
birth palsy
birth pang
birth pangs
birth phantasy
birth rate
birth sin
birth theory
birth throe
birth throes
birth trauma
birth year
birth-control pill
birthday cake
bishop's weed
bishop's-cap
bishop's-weed
bismuth blende
bismuth chromate
bismuth glance
bismuth ocher
bismuth oxychloride
bismuth oxynitrate
bismuth spar
bismuth subchloride
bismuth subnitrate
bismuth tribromphenate
bismuth white
bismuth yellow
bismuthyl chloride
bisextile day
bisextile year
bistable circuit
bister green
bit by bit
bit gauge
bit key
bit much, a
bit of your mind
bit part
bit pincers
bit player
bit stop
bit, a
bit-by-bit
bit-weight control
bit-wise
bitch box
bitch chain
bitch goddess
bitch up
bitch-kitty
bitched up
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
bitter-ender
bitter-enderism
bitter-endism
bitter-orange oil
bitter-rinded
bitter-sweet
bitter-sweeting
bitter-tasting
bitter-tongued
bitterly cold
bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
black bass
black bead
black bean
black bear
black beast
black beetle
black belt
black bent
black bile
black bindweed
black blizzard
black board
black body
black book
black bottom
black box
black brant
black bread
black bryony
black buck
black buffalo
black buran
black butter
black calla
black cap
black carpet beetle
black cat
black chaff
black cherry
black chokeberry
black clouds
black cod
black cohosh
black comedy
black copper
black cosmos
black crappie
black currant
black death
black despondency
black diamond
black diamonds
black disease
black dog
black drop
black duck
black durgon
black earth
black eye
black face
black face Highland
black fever
black fish
black flag
black flux
black fly
black fog
black foot
black fox
black friar
black frost
black game
black gang
black ghetto
black gnat
black gold
black gown
black gram
black grouse
black guillemot
black gum
black hand
black haw
black heat
black hellebore
black henbane
black hole
black horehound
black huckleberry
black humor
black ice
black ink
black ivory
black jack
black kite
black knot
black lead
black letter
black light
black liquor
black list
black locust
black look
black looks
black lung
black magic
black mail
black man
black maple
black margate
black maria
black mark
black mark to
black market
black marketeer
black marketer
black marten
black mass
black measles
black medic
black medick
black mercuric sulfide
black mold
black molly
black monday
black monk
black moor
black mould
black mulberry
black mustard
black nickel oxide
black nightshade
black nob
black oak
black opal
black or white
black out
black paternoster
black pepper
black perch
black pewter
black pit
black plague
black poplar
black powder
black power
black prince
black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black sand
black sap
black scoter
black sea bass
black selenium
black shank
black sheep
black skimmer
black snake
black snakerooot
black soap
black spot
black spruce
black squall
black squirrel
black stem
black stick
black storm
black studies
black stuff
black stump
black sucker
black supremacy
black swallowtail
black swan
black tea
black tie
black titi
black tracker
black treacle
black turnstone
black velvet
black vomit
black vote
black vulture
black walnut
black wash
black wattle
black whale
black widow
black widow spider
black witch
black-out
black-peopled
black-plumed
black-pot
black-red
black-robed
black-rooted
black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
blackback flounder
blackbanded sunfish
blackbelly rosefish
blackberry bark
blackberry lily
blackberry token
blackberry wine
blackbird bindweed
blackboy gum
blackcrowned night heron
blacken your good name
blacketer than black synchronizing
blackest dye
blackfin cisco
blackfish oil
blackhead Persian
blackhead disease
blackhead grass
blackhead minnow
blackheart plover
blackjack oak
blackjack pine
blackland plow
blackout skit
blackpoll warbler
blacksmith shop
blacksmith welding
blacksmith's hammer
blacksmith's shop
blackstrap molasses
blacktail deer
blackwall hitch
blackwater fever
blad apple
bladder campion
bladder catchfly
bladder cherry
bladder fern
bladder fucus
bladder green
bladder herb
bladder kelp
bladder ketmia
bladder ketmie
bladder plum
bladder sedge
bladder senna
bladder snout
bladder tangle
bladder tree
bladder worm
bladder wrack
bladdernut family
bladderwort family
blade angle
blade apple
blade buffer
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blanket binder
blanket binding
blanket chest
blanket cloth
blanket deposit
blanket drill
blanket fish
blanket holder
blanket leaf
blanket maker
blanket mortgage
blanket moss
blanket policy
blanket rate
blanket roll
blanket scum
blanket sheet
blanket stiff
blanket stitch
blanket washer
blanket weaver
blanket weaving
blanket-flower
blanket-stitch
blankety blank
blankety-blank
blanking amplifier
blanking die
blanking press
blanking punch
blanking signal
blanquette de veau
blare abroad
blare forth
blarney stone
blast away
blast bloomery
blast engine
blast fan
blast freezing
blast furnace
blast lamp
blast neurosis
blast off
blast pipe
blast propulsion
blast roasting
blast the ear
blast wave
blast your hope
blast-
blast-borne
blast-freeze
blast-freezing
blast-frozen
blast-furnace
blast-off
blasted expectation
blasting cap
blasting cartridge
blasting circuit
blasting detonator
blasting fuse
blasting gelatin
blasting machine
blasting mat
blasting needle
blasting oil
blasting paper
blasting powder
blasting spoon
blasting tools
blasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bled white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenno-
blennorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blightened area
blightened hope
blightened neighborhood
blighted section
blicting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind staggers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
blinker light
blinker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
block flute
block foot
block front
block furnace
block grant
block hole
block in
block in course bond
block irrigation
block lava
block letter
block line
block maker
block mast
block model
block mold
block mountain
block off
block out
block party
block pattern
block plan
block plane
block print
block printing
block punch
block rate
block release
block signal
block signaling
block signals
block sugar
block system
block teeth
block the light
block tin
block up
block vote
block-book
block-caving
block-in-course bond
block-printed
block-saw
block-serifed
block-signal system
blockade-runner
blockade-running
blocked shoe
blocked-out
blocker-out
blockhead board
blocking back
blocking condenser
blocking course
blocking drive
blocking hammer
blocking out
blocking press
blocking process
blocking the light
blond-haired
blond-headed
blonde lace
blood albumin
blood and thunder
blood bank
blood baptism
blood bath
blood blister
blood bond
blood bread
blood brother
blood brotherhood
blood carcake
blood cast
blood cell
blood clam
blood clot
blood corpuscle
blood count
blood covenant
blood crisis
blood crystals
blood culture
blood cup
blood disease
blood diseases
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood grouping
blood guilt
blood heat
blood horse
blood islands
blood knot
blood lily
blood lust
blood mare
blood meal
blood mole
blood money
blood orange
blood pheasant
blood picture
blood pink
blood plant
blood plasma
blood platelet
blood plum
blood poisoning
blood pressure
blood pudding
blood purge
blood rain
blood red
blood refiner
blood relation
blood relationship
blood relative
blood revenge
blood rite
blood royal
blood sacrifice
blood sausage
blood seller
blood serum
blood sister
blood spavin
blood sport
blood spot
blood strain
blood stream
blood substitute
blood sugar
blood test
blood ties
blood transfusion
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot
blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavin
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloodless revolution
bloodless surgery
bloodwort family
bloody butchers
bloody flux
bloody hands
bloody mary
bloody mess
bloody murder
bloody noun
bloody shirt
bloody your hands with
bloody-back
bloody-bones
bloody-eyed
bloody-faced
bloody-handed
bloody-hearted
bloody-minded
bloody-mindedness
bloody-mouthed
bloody-nosed
bloody-red
bloody-sceptered
bloody-veined
bloom boy
bloom bud
bloom conveyer
bloom cutter
bloom heater
bloom hook
bloom late
bloom loader
bloom mill
bloom oil
bloom poison
bloom runner
bloom saw
bloom shearer
bloom shears
bloom side
bloom slinger
bloom smithy
bloom swinger
bloom tongs
bloom yard
bloom-colored
bloom-fell
bloom-shearing
bloomer girl
bloomer pit
blooming mill
blooming oil
blooming rolls
bloomy-down
blossom blight
blossom bud
blossom withy
blossom-bearing
blossom-billed
blossom-bordered
blossom-crested
blossom-end rot
blossom-faced
blossom-headed
blossom-laden
blossom-nosed
blot in your escutcheon
blot in your scutcheon
blot on your escutcheon
blot out
blot out your sins
blot up
blotch printing
blotch-shaped
blotting book
blotting case
blotting out
blotting pad
blotting paper
blow a fuse
blow a gasket
blow a horn
blow a hurricane
blow a kiss
blow a safe
blow about
blow accordion
blow away
blow case
blow down
blow for blow
blow great guns
blow hard
blow hot and cold
blow in
blow into
blow it
blow job
blow me down
blow milk
blow mold
blow molding
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blubber lamp
blubber oil
blubber ship
blubber spade
blubber stove
blubber-cheeked
blubber-fed
blue Andalusian
blue Johnnies
blue Monday
blue Orpington
blue alert
blue angel
blue asbestos
blue baby
blue bag
blue bed
blue bell
blue belt
blue bird
blue black
blue blazing star
blue blindness
blue blood
blue bloods
blue bonnet
blue book
blue bottle
blue buck
blue bull
blue butcher
blue cat
blue cheese
blue chip
blue chip stock
blue coat
blue cohosh
blue colors and pigments
blue comb
blue copperas
blue coral
blue crab
blue crane
blue curls
blue daisy
blue dandelion
blue darter
blue dawn-flower
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue penguin
blue peter
blue phlox
blue pickerel
blue pigeon
blue pike
blue pikeperch
blue pill
blue plate
blue point
blue pointer
blue powder
blue presser
blue pressman
blue racer
blue ribband
blue ribbon
blue rockfish
blue ruin
blue runner
blue shark
blue sheep
blue shift
blue sky
blue spirea
blue spruce
blue star grass
blue stellar object
blue stem
blue stone
blue story
blue streak
blue succory
blue thistle
blue tit
blue trucker
blue turquoise
blue velvet
blue verditer
blue vervain
blue vitriol
blue walleye
blue water
blue whale
blue with cold
blue wood aster
blue ynde
blue, the
blue-annealed
blue-aproned
blue-arc phenomenon
blue-backed
blue-banded
blue-bellied
blue-belt
blue-berried
blue-billed
blue-bird
blue-black
blue-blackness
blue-blind
blue-blooded
blue-blossom
blue-bloused
blue-bottle
blue-breasted
blue-breasted darter
blue-brick university
blue-cap
blue-checked
blue-checkered
blue-chip
blue-coated
blue-collar
blue-collar worker
blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
blue-curls
blue-devilage
blue-devilism
blue-eared
blue-eye
blue-eyed
blue-eyed Mary
blue-eyed boy
blue-eyed grass
blue-eyed soul
blue-faced
blue-fish
blue-flowered
blue-footed
blue-fronted
blue-glancing
blue-glimmering
blue-gray
blue-gray gnatcatcher
blue-green
blue-green alga
blue-green algae
blue-green flame
blue-gum leaves
blue-haired
blue-headed
blue-headed vireo
blue-hearts
blue-hot
blue-john
blue-leaved
blue-lined
blue-mantled
blue-molded
blue-molding
blue-mottled
blue-mouthed
blue-nose
blue-nosed
blue-pencil
blue-penciled
blue-penciling
blue-pencilled
blue-pencilling
blue-rayed
blue-red
blue-ribbon
blue-ribbon jury
blue-ribbon panel
blue-ribboner
blue-ribbonism
blue-ribbonist
blue-roan
blue-rolled
blue-sailors
blue-sighted
blue-sky
blue-sky law
blue-slate
blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stocking
blue-stripped
blue-tailed
blue-throated
blue-tinted
blue-tongued
blue-veined
blue-washed
blue-water
blue-water school
blue-wattled
blue-white
blue-winged
blue-winged teal
blue-yellow
blue-yellow blindness
blue-yellow-blind
blueback mullet
blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
bluff formation
bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunder upon
blunders round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
blunt-lobed
blunt-nosed
blunt-pointed
blunt-spoken
blunt-witted
blur circle
blur distinctions
blurred speech
blurred vision
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
board scale
board school
board side
board wages
board work
board worker
board-and-roomer
board-and-shingle
board-school
board-wages
boarder-up
boarding house
boarding nettings
boarding officer
boarding pike
boarding ramp
boarding school
boarding-out system
boards, the
boast of
boasting chisel
boat ax
boat bed
boat boy
boat bridge
boat bug
boat chock
boat club
boat crane
boat deck
boat drill
boat falls
boat hand
boat hire
boat hook
boat line
boat livery
boat nail
boat neck
boat neckline
boat pan
boat patch
boat people
boat race
boat seaplane
boat show
boat song
boat spike
boat steerer
boat train
boat truck
boat-bill
boat-billed heron
boat-fly
boat-green
boat-handler
boat-lowering
boat-race
boat-shaped
boat-tailed
boat-tailed grackle
boat-woman
boatswain bird
boatswain's call
boatswain's chair
boatswain's mate
boatswain's pipe
boatswain's stores
bob a curtsy
bob and wheel
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
bobby socks
bobby soxer
bobby-dazzler
bobby-socker
bobby-soxer
bobsy-die
bobtail drawbridge
bobtail flush
bobtail straight
bobtailed arrow
bobwhite quail
bock beer
bodd-
bodhi tree
bodice maker
bodies seven
bodily appetite
bodily charm
bodily comfort
bodily discharge
bodily grace
bodily love
bodily pleasure
bodily size
bodkin beard
body Brussels
body English
body and blood of Christ
body armor
body axis
body bag
body blight
body blow
body brace
body building
body cavity
body cell
body centred
body check
body cloth
body clothes
body clothing
body coat
body color
body colour
body constituent
body corporate
body count
body curer
body designer
body ease
body erector
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
body stocking
body suit
body surface
body track
body type
body varnish
body washer
body weight
body white
body whorl
body-breaking
body-build
body-centered
body-centred
body-guard
body-killing
body-line
body-line bowling
body-mind
body-snatching
boeuf a la bourguignonne
boeuf bourguignon
bofors gun
bog arum
bog asphodel
bog bean
bog bilberry
bog birch
bog blister
bog blueberry
bog bull
bog bulrush
bog butter
bog cotton
bog cutting
bog deal
bog down
bog earth
bog featherfoil
bog fern
bog gale
bog garden
bog gentian
bog glede
bog grass
bog hay
bog hop
bog in
bog iron
bog iron ore
bog jumper
bog lemming
bog lime
bog manganese
bog mine
bog mold
bog moss
bog myrtle
bog nut
bog oak
bog onion
bog orchid
bog orchis
bog ore
bog peat
bog pimpernel
bog pine
bog pink
bog plant
bog rhubarb
bog rose
bog rosemary
bog rush
bog spavin
bog spruce
bog stalker
bog star
bog stitchwort
bog strawberry
bog timber
bog torch
bog trefoil
bog turf
bog violet
bog whortleberry
bog willow
bog-bred
bog-down
bog-eyed
bog-hoose
bog-iron ore
bog-rush
bog-trot
bog-trotter
bogey hole
bogey man
bogey-hole
boggle-dy-botch
bogie engine
bogie roll
bogus money
bohemian bob
bohemian brethren
bohr theory
bohun upas
boil away
boil down
boil off
boil over
boil smut
boil up
boil-off
boiled dinner
boiled dressing
boiled eggs
boiled meat
boiled oil
boiled shirt
boiled sweet
boiler alarm
boiler blower
boiler cleaner
boiler compound
boiler coverer
boiler factory
boiler fitter
boiler fixer
boiler flue
boiler head
boiler horsepower
boiler inspector
boiler iron
boiler plate
boiler room
boiler scale
boiler shell
boiler shop
boiler suit
boiler tenter
boiler tube
boiler tuber
boiler-cleaning
boiler-off
boiler-out
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
bolster plate
bolster up
bolt action
bolt auger
bolt boat
bolt chisel
bolt down
bolt forger
bolt from the blue
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombaja palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bombing locator
bombing machine
bombing mission
bombing run
bombing sap
bon ami
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bon viveur
bon voyage
bon-accord
bon-bon
bon-ton
bon-vivant
bona activa
bona fide
bona fide holder
bona fide purchaser
bona fideness
bona fides
bona roba
bona vacantia
bona-fide
bona-roba
bonace tree
bone forceps
bone glass
bone grinder
bone heap
bone house
bone idle
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisher
bone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
bonny-clabber
bons amis
bons mots
bons vivants
bont tick
bonus issue
bonus system
bony fish
bony labyrinth
book madness
book manufacturing
book match
book muslin
book name
book notice
book of account
book of common prayer
book of fate
book of hours
book of original entry
book of verse
book out
book packet
book palm
book part
book post
book postage
book printer
book printing
book production
book profit
book publisher
book publishing
book review
book reviewer
book reviewing
book salesman
book scorpion
book size
book society
book stamp
book stitcher
book support
book table
book tile
book token
book tray
book truck
book value
book wagon
book-case
book-craft
book-fed
book-fell
book-flat
book-folder
book-keeper
boom-and-bust
boom-ended
booming economy
booming market
boon companion
boon companionship
boon day
boon earth
boon loaf
boon work
boost your pay
booster amplifiers
booster battery
booster charge
booster dose
booster pump
booster rocket
booster rocket unit
booster shot
booster stations
booster unit
boot camp
boot cleaner
boot closer
boot cloth
boot crimp
boot dressing
boot hill
boot hook
boot ironer
boot maker
boot needle
boot out
boot polish
boot polisher
boot powder
boot socks
boot spur
boot stretcher
boot the
boot top
boot tree
boot-cleaning
boot-hale
boot-leg
boot-topping
booted and spurred
booting out
bootlace worm
bootle-blade
bootleg liquor
bootleg play
bootleg sucker
bootless errand
boots and all
boots and saddles
booze fighter
booze up
booze-up
bor-
borage family
borax bead
borax carmine
borax glass
borax honey
borax pentahydrate
borax usta
bord gate
bord-and-pillar
bord-land
bord-lode
bordeaux mixture
border ballads
border ground
border irrigation
border light
border line
border on
border pen
border service
border stone
border terrier
border upon
border world
border-land
bordering on
bordering upon
borderline case
bore bit
bore meal
bore out of all patience
bore out of your life
bore stiff
bore to death
bore to distraction
bore to extinction
bore to tears
boreal blast
bored stiff
bored to death
bored to extinction
bored to tears
boric acid
boring bar
boring block
boring head
boring journal
boring machine
boring mill
boring pain
boring person
boring rod
boring tool
boring tube
born again
born before your time
born days
born fool
born for
born in Poland
born leader
born on itself
born out of wedlock
born to the purple
born under a bad sign
born under a lucky star
born under an evil star
born within sound of Bow bells
born yesterday
borne out
borneing day
bornyl acetate
bornyl alcohol
bornyl formate
boro-
boron carbide
boron counter
boron nitride
borosilicic acid
borough council
borough english
borough reeve
borough-English
borough-english
boston cream pie
boston fern
boston ivy
boston terrier
botanical garden
botano-
botany bay
botched writing
botched-up
both-handed
both-handedness
both-hands
bott hammer
bottery tree
bottle baby
bottle blower
bottle boot
bottle brush
bottle bump
bottle cap
bottle capper
bottle carrier
bottle cleaner
bottle club
bottle coaster
bottle cod
bottle corker
bottle feeding
bottle fern
bottle filler
bottle gentian
bottle glass
bottle gourd
bottle grass
bottle green
bottle heath
bottle imp
bottle in
bottle jack
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
bottle-assed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-butted
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bound electron
bound foot
bound form
bound morpheme
bound over
bound to
bound up
bound up in
bound up with
bound variable
boundary condition
boundary layer
boundary light
boundary line
boundary point
boundary rider
boundary stone
boundary value problem
boundary-marking
bounden duty
bounden to
bounding bow
boundless pit
bounty hunter
bounty jumper
bounty jumping
bounty-fed
bouquet garni
bouquet larkspur
bouquets garnis
bourbon and branch water
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bover boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bowie knife
bowie-knife
bowing acquaintance
bowing and scraping
bowing down
bowing stone
bowl a bosey
bowl a googly
bowl a wrong 'un
bowl along
bowl down
bowl game
bowl over
bowl spirit
bowl-shaped
bowled down
bowled over
bowline bridle
bowline cringle
bowline knot
bowling alley
bowling average
bowling ball
bowling crease
bowling green
bowling on the green
bowling stump
bowman's root
bows on
bows under
bowsprit bed
bowsprit cap
bowsprit shroud
bowstring beam
bowstring bridge
bowstring creeper
bowstring girder
bowstring hemp
bowstring roof
bowstring truss
bowtie antenna
bowwow theory
box barberry
box barrage
box barrow
box beam
box bed
box bill
box bolt
box bridge
box brier
box buggy
box caisson
box calf
box camera
box canyon
box chisel
box chronometer
box chuck
box clip
box cloth
box coat
box column
box cooper
box coot
box cornice
box couch
box coupling
box coverer
box crab
box cutter
box day
box dolly
box drain
box dresser
box edging
box elder
box end
box family
box frame
box front
box gauge
box girder
box grave
box green
box groove
box hanger
box hardening
box heading
box hedge
box hinging
box holder
box holly
box hook
box house
box huckleberry
box in
box iron
box jig
box junction
box keel
box key
box kite
box level
box lid
box loom
box maker
box metal
box midge
box myrtle
box nail
box nailer
box nut
box oak
box of cigarettes
box of cigars
box off
box office
box on the ear
box opener
box oyster
box pew
box plait
box plaiter
box plaiting
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shook
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stoop
box stove
box strap
box stretcher
box strike
box string
box tail
box taler
box tenon
box the compass
box the ears
box toe
box tool
box tortoise
box trap
box tree
box truck
box turtle
box up
box valve
box waggon
box wagon
box wrench
box-bordered
box-branding
box-calf
box-cleating
box-covering
box-edged
box-elder aphid
box-elder bug
box-haul
box-leaved
box-locking
box-nailing
box-office
box-plaited
box-shaped
box-strapping
box-top mission
box-tree
box-trimming
box-turning
boxed cornice
boxed in
boxed-in
boxer shorts
boxer's ear
boxer-off
boxer-up
boxing blow
boxing day
boxing glove
boxing gloves
boxing match
boxing ring
boxing shutter
boxing weight
boxing-day
boxing-in
boy bishop
boy friend
boy oh boy
boy scout
boy wonder
boy's love
boy-meets-girl
boyar palm
boyish bob
boys' haircuts
boys' room
brab tree
brace a yard fore and aft
brace and bit
brace bit
brace block
brace box
brace bumpkin
brace comb
brace game
brace head
brace in
brace jack
brace molding
brace pendant
brace piece
brace root
brace table
brace up
brace wire
brace wrench
brace yourself
braced arch
braced frame
bracelet tie
bracelet wood
brachialis anticus
brachio-
brachio-cephalic
brachisto-
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braid rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spatterning
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
| branch trace  |
| branch water  |
| branch wilt   |
| branch-bearing |
| branch-building |
| branch-charmed |
| branch-embellished |
| branch-rent   |
| branch-strewn |
| branched chain |
| branches of medicine |
| branchial arch |
| branchial cleft |
| branchial groove |
| branching off  |
| branching out  |
| branchio-      |
| branchiostegal ray |
| brand goose    |
| brand iron     |
| brand-goose    |
| brand-mark     |
| brand-new      |
| brand-newness  |
| brand-spanking new |
| branding iron  |
| brandy Alexander |
| brandy and soda |
| brandy ball    |
| brandy bottle  |
| brandy butter  |
| brandy mazzard |
| brandy mint    |
| brandy smash   |
| brandy snap    |
| brandy snifter |
| brandy sour    |
| brandy-bottle  |
| brandy-burnt   |
| brandy-faced   |
| brandy-pawnee  |
| brank-new      |
| brank-ursine   |
| brant bird     |
| brant fox      |
| brant goose    |
brant snipe
brant-fox
bras-dessus-bras-dessous
brash bearing
brass ankle
brass band
brass buffer
brass buttons
brass choir
brass farthing
brass finisher
brass fitter
brass founder
brass hat
brass instrument
brass knuckles
brass knucks
brass molder
brass pounder
brass quintet
brass section
brass spinner
brass tacks
brass turner
brass wind
brass, the
brass-armed
brass-bold
brass-browed
brass-cheeked
brass-colored
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved
brass-lined
brass-melting
brass-mounted
brass-plated
brass-renting
brass-shapen
brass-smith
brass-tipped
brass-visaged
brass-wind instrument
brass-working
brattice cloth
brave face
brave front
brave person
brave show
brave west winds
brave-horsed
brave-looking
brave-minded
brave-sensed
brave-showing
brave-souled
brave-spirited
brave-spiritedness
braze-jointed
brazen boldness
brazen it out
brazen law of wages
brazen out
brazen through
brazen-barking
brazen-browed
brazen-clawed
brazen-colored
brazen-face
brazen-faced
brazen-facedly
brazen-fisted
brazen-floored
brazen-footed
brazen-fronted
brazen-gated
brazen-headed
brazen-hilted
brazen-hoofed
brazen-imaged
brazen-leaved
brazen-lunged
brazen-mailed
brazen-mouthed
brazen-pointed
brazil nut
brazil wood
brazing alloy
bre kekekex
breach of contract
breach of faith
breach of friendship
breach of law
breach of privilege
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumb
bread-crumbing
bread-crust bomb
bread-cutting
bread-eating
bread-faced
bread-fruit
bread-liner
bread-stitch
bread-stuff
bread-tree
bread-winner
bread-wrapping
breadth extreme
breadth index
breadth molded
break Priscian's head
break a lance with
break a strike
break and entry
break away
break back
break bean
break boundary
break bounds
break bread
break bread with
break bulk
break camp
break cover
break down
break down and confess
break down and cry
break even
break faith
break flour
break for
break forth
break free
break front
break ground
break in
break in on
break in the market
break in upon
break into
break into a smile
break into music
break into pieces
break into smithereens
break iron
break it off
break it to
break it up
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break of
break of day
break of serve Tennis
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
break to pieces
break to smithereens
break up
break van
break water
break wind
break with
break with the past
break you up
break your back
break your bonds
break your chains
break your eyes away
break your fast
break your fetters
break your heart
break your heart over
break your neck
break your promise
break your word
break yourself away
break-
break-back
break-circuit
break-down
break-even
break-even point
break-front
break-in
break-neck
break-off
break-promise
break-through
break-up
breakaway group
breakbone fever
breakdown lights
breakdown of authority
breakdown van
breakdown voltage
breaker card
breaker strip
breaker-down
breaker-off
breaker-up
breakers ahead
breakeven chart
breakfast bacon
breakfast bell
breakfast food
breakfast knife
breakfast nook
breakfast plate
breakfast room
breakfast set
breakfast table
breakfast time
breaking and entering
breaking down
breaking engine
breaking joint
breaking load
breaking loose
breaking off of negotiations
breaking out
breaking piece
breaking plough
breaking plow
breaking point
breaking strength
breaking up
breaking water
breaking-in
breakoff point
breaks, the
breakthrough weapons
breakup switch
breakup value
breast auger
breast backstay
breast beam
breast board
breast collar
breast cut
breast cylinder
breast drill
breast fast
breast feathers
breast harness
breast hoe
breast hole
breast in
breast kerchief
breast knee
breast laws
breast line
breast milk
breast molding
breast of lamb
breast of veal
breast off
breast pang
breast pocket
breast pump
breast roll
breast stoping
breast strap
breast stroke
breast tea
breast the current
breast the flood
breast the tide
breast the wave
breast timber
breast wall
breast wheel
breast-beam
breast-beater
breast-beating
breast-board
breast-deep
breast-fed
breast-feed
breast-feeding
breast-high
breast-hook
breast-plate
breast-plough
breast-rending
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer’s hammer
bricks and mortar
bridal hymn
bridal outfit
bridal saddle
bridal suite
bridal wreath
bride and groom
bride duck
bride price
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bridle tape
bridle trail
bridle up
bridle way
bridle wire
bridle-wise
brief bag
brief case
brief of title
brief span
brief success
brier bamboo
brier bush
brier rose
brier stitch
brig-rigged
brigade major
brigadier general
brigadier generals
bright and early
bright and fair
bright and shining
bright and sunny
bright color
bright days
bright diffuse nebula
bright eyes
bright idea
bright light
bright lights
bright outlook
bright prospect
bright rose
bright sentinels of the sky
bright side
bright smile
bright thought
bright wanderer
bright with promise
bright wool
bright young man
bright's disease
bright-bloomed
bright-cheeked
bright-colored
bright-dyed
bright-eyed
bright-eyed and bushy-tailed
bright-faced
bright-featured
bright-field
bright-flaming
bright-haired
bright-headed
bright-hued
bright-leaved
bright-line spectrum
bright-minded
bright-robbed
bright-spotted
bright-striped
bright-studded
bright-tinted
bright-witted
brighten up
brightline spectrum
brightness equation
brightness temperature
brill's disease
brilliant cut
brilliant idea
brilliant light
brilliant success
brilliant-cut
brim over
brimming eyes
brimstone acid
brimstone butterfly
brimstone yellow
brindled gnu
brine fly
brine gauge
brine pan
brine pit
brine pump
brine pumper
brine shrimp
brine worm
brine-bound
brine-cooler
brine-cooling
brine-dripping
brine-pumping
brine-soaked
brinell hardness
brinell number
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to
bring to a happy issue
bring to a head
bring to a stand
bring to a standstill
bring to a stop
bring to account
bring to an end
bring to an understanding
bring to attention
bring to bay
bring to bear
bring to bear upon
bring to birth
bring to book
bring to completion
bring to effect
bring to fruition
bring to justice
bring to life
bring to light
bring to maturity
bring to mind
bring to naught
bring to nothing
bring to notice
bring to nought
bring to pass
bring to reason
bring to recollection
bring to ruin
bring to tears
bring to terms
bring to test
bring to the bar
bring to the block
bring to the boiling point
bring to the fore
bring to the front
bring to the gallows
bring to trial
bring to view
bring to your notice
bring to your senses
bring together
bring trouble
bring tumbling down
bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brim
broad-brimmed
broad-built
broad-chested
broad-chinned
broad-crested
broad-eared
broad-eyed
broad-faced
broad-flapped
broad-fronted
broad-gage
broad-gaged
broad-gauge
broad-gauge person
broad-gauged
broad-guage
broad-handed
broad-headed
broad-hoofed
broad-horned
broad-jump
broad-leafed
broad-leaved
broad-leaved bottle tree
broad-leaved maple
broad-limbed
broad-lipped
broad-listed
broad-margined
broad-minded
broad-minded person
broad-mindedly
broad-mindedness
broad-mouthed
broad-nosed
broad-piece
broad-ribbed
broad-roomed
broad-set
broad-shouldered
broad-skirted
broad-souled
broad-spectrum
broad-spectrum antibiotic
broad-spectrum drug
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken water
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartenedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
broken-legged
broken-minded
broken-mouthed
broken-nosed
broken-paced
broken-record
broken-shanked
broken-spirited
broken-winded
broken-winged
broker's agent
broker's loan
brokerage house
brokerage office
brolly-hop
brom-
brome grass
bromic acid
bromide paper
bromine pentfluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-ronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-roncho-ronco grass
bronx cheer
bronze age
bronze caster
bronze diabetes
bronze medal
bronze smelter
bronze star medal
bronze-bearing
bronze-bound
bronze-brown
bronze-casting
bronze-clad
bronze-colored
bronze-covered
bronze-foreheaded
bronze-gilt
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
bronzed grackle
brood above
brood bud
brood cell
brood chamber
brood gemma
brood mare
brood matron
brood nest
brood over
brood patch
brood pouch
brooder house
broody coop
broody hen
brook bean
brook betony
brook celandine
brook feather
brook lamprey
brook lobelia
brook mink
brook mint
brook no
brook no denial
brook pimpernel
brook runner
brook silk
brook sunflower
brook tongue
brook trout
broom birch
broom brush
broom clover
broom corn
broom crowberry
broom cypress
broom goosefoot
broom grass
broom handle
broom heath
broom hickory
broom maker
broom millet
broom moss
broom palm
broom pine
broom sage
broom sedge
broom straw
broom tea tree
broom toadflax
broom tops
broom tree
broom twine
broom wattle
broom-leaved
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brown-nosed
brown-noser
brown-nosing
brown-purple
brown-red
brown-roofed
brown-sailed
brown-skinned
brown-sleeve
brown-spotted
brown-state
brown-stemmed
brown-strained
brown-tail moth
brown-tailed
brown-washed
browned off
browned-off
brownian motion
brownian movement
browning solution
browning trowel
brownish-red
brownish-yellow
brownstone front
browsing room
bruit about
bruited about
bruited about
brumbo pulley
brunch coat
brunch-word
brush ape
brush apple
brush aside
brush ax
brush back
brush borer
brush boring
brush box
brush breaker
brush bronzewing
brush broom
brush by
brush case
brush cherry
brush coating
brush cut
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brut concrete
brutal act
brutal fact
brutal task
brute creation
brute force
brute matter
brute strength
bruzz iron
bry-
brys-
bton de commandement
buaze fiber
bubble and squeak
bubble bath
bubble canopy
bubble car
bubble chamber
bubble dance
bubble dancer
bubble glass
bubble gum
bubble hood
bubble nest
bubble over
bubble sextant
bubble shell
bubble tower
bubble tube
bubble up
bubble-and-squeak
bubble-bow
bubbling over
bubbly-jock
bubonic plague
buccinator novi temporis
bucco camphor
buchu camphor
buchu oil
buck ague
buck and wing
buck basket
buck bean
buck fat
buck fever
buck finch
buck fleece
buck for
buck grass
buck in
buck knee
buck law
buck moth
buck off
buck passer
buck private
buck rabbit
buck rake
buck sail
buck scraper
buck sheet
buck slip
buck thistle
buck up
buck's horn plantain
buck's turn
buck's-horn
buck-and-wing
buck-bean
buck-bean family
buck-eye
buck-eyed
buck-horn
buck-hound
buck-jump
buck-mast
buck-one
buck-passing
buck-shot
buck-stall
buck-tooth
buck-toothed
buck-washing
bucker-up
bucket about
bucket bench
bucket brigade
bucket carrier
bucket conveyer
bucket down
bucket dredge
bucket hook
bucket hooker
bucket ladder
bucket maker
bucket orchid
bucket out
bucket pump
bucket rope
bucket seat
bucket shop
bucket snapper
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
bucketey rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forger
buckle into
buckle maker
buckle mounter
buckle on your armor
buckle presser
buckle rollerer
buckle stamper
buckle to
buckle tongue
buckle tonguer
buckle under
buckle yourself
buckle-beggar
buckler fern
buckler maker
buckler mustard
buckler play
buckler player
buckler-fern
buckler-headed
buckler-shaped
bucks-beard
buckshot pattern
buckthorn brown
buckthorn family
buckwheat cake
buckwheat coal
buckwheat family
buckwheat flour
buckwheat sage
buckwheat tree
buckwheat vine
bucolic caesura
bud brush
bud from
bud grafting
bud gum
bud moth
bud mutation
bud rot
bud sage
bud scale
bud sport
bud stick
bud variation
bud variety
bud vase
buddy sap
buddy system
buddy up
buddy-boy
buddy-buddy
budge bachelor
budge barrel
budge-barrel
budget account
budget items
budget of news
budget plan
budget prices
buenas noches
buenos dias
buff Orpington
buff coat
buff leather
buff nor stye
buff stick
buff top
buff wheel
buff, the
buff-backed
buff-bare
buff-breasted
buff-citrine
buff-colored
buff-orange
buff-tipped
buff-washed
buff-yellow
buffalo apple
buffalo berry
buffalo bird
buffalo bug
buffalo bur
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo cod
buffalo currant
buffalo dance
buffalo disease
buffalo fish
buffalo fly
buffalo gnat
buffalo gourd
buffalo grass
buffalo jack
buffalo mange
buffalo moth
buffalo nut
buffalo pea
buffalo robe
buffalo sunfish
buffalo thorn
buffalo tree
buffalo tree hopper
buffalo wallow
buffalo weed
buffalo wolf
buffalo-headed
buffer bar
buffer beam
buffer block
buffer salt
buffer solution
buffer state
buffer therapy
buffer value
buffer zone
buffered aspirin
buffet car
buffet lunch
buffet supper
buffet the waves
buffing apparatus
buffing head
buffing wheel
buffle duck
buffle-headed
buffo bass
buffy coat
bug agaric
bug bomb
bug in the ear
bug juice
bug light
bug off
bug word
bug-eyed
bug-eyes
bug-juice
bug-word
bugger about
bugger off
bugger up
buggered up
bugging machine
buggy cultivator
buggy plow
bugle call
bugle corps
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulb angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyer
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull ditcher
bull donkey
bull dust
bull dyke
bull earing
bull fiddle
bull float
bull gear
bull grape
bull grass
bull gun
bull header
bull horn
bull in a china shop
bull kelp
bull mackerel
bull market
bull mastiff
bull meat
bull moose
bull neck
bull net
bull nettle
bull nose
bull oak
bull peep
bull pen
bull pine
bull plum
bull point
bull pool
bull press
bull pump
bull quartz
bull raid
bull rattle
bull redfish
bull ring
bull riveter
bull rope
bull session
bull shark
bull snake
bull stag
bull stretcher
bull terrier
bull the market
bull thistle
bull tongue
bull train
bull trout
bull wheel
bull's nose
bull's-eye
bull's-eye lantern
bull's-eye mirror
bull's-eye rot
bull's-eye squall
bull's-eyed
bull's-eyes
bull-
bull-bait
bull-baiter
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bullet wood
bullet-head
bullet-hole
bullet-resisting glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullish market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunny rabbit
bunsen burner
bunt glut
bunter dog
bunting crow
bunting iron
bunting lark
buntingline cloth
bunya-bunya
buon fresco
buon giorno
buona notte
buona sera
buono fresco
buoy boat
buoy up
buoy-tender
buoyancy force
buoyant force
buoyant market
buoyant mine
buoyed up
buoyed-up
buprestid beetle
bur artichoke
bur chervil
bur clover
bur cucumber
bur gherkin
bur grass
bur marigold
bur oak
bur parsley
bur reed
bur sage
bur thistle
bur vervain
bur-reed
buratto lace
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmannia family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn- ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
bush country
bush cow
bush cranberry
bush disease
bush doe
bush dog
bush dove
bush flying
bush forest
bush fruit
bush goat
bush grape
bush hammer
bush harrow
bush hawk
bush honeysuckle
bush hook
bush house
bush huckleberry
bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
bush soul
bush swamp
bush tamarind
bush tea
bush telegraph
bush tit
bush trefoil
bush up
bush vetch
bush warbler
bush wren
bush-fighter
bush-grown
bush-haired
bush-hammer
bush-harrow
bush-head
bush-headed
bush-league
bush-ranger
bush-rope
bush-shrike
bush-skirted
bush-tailed
busheled iron
bushy aster
bushy-bearded
bushy-browed
bushy-eared
bushy-haired
bushy-headed
bushy-legged
bushy-tailed
bushy-whiskered
bushy-wigged
business English
business affairs
business agent
business arithmetic
business at hand
business car
business card
business chemistry
business college
business correspondence
business cycle
business deal
business dealings
business directory
business district
business double
business education
business end
business establishment
business ethics
business fluctuations
business index
business interruption insurance
business is business
business jet
business law
business leader
business letter
business life insurance
business machine
business paper
business pass
business relations
business reply card
business reply envelope
business school
business section
business suit
business transaction
business unionism
businessman's bounce
businessman's trip
busman's holiday
buss the clouds
busser-in
bust a gut
bust hammer
bust in
bust out
bust up
bust your ass
bust-up
bustamente furnace
bustard quail
bustle pipe
busy Lizzie
busy as a beaver
busy as a bee
busy bee
busy signal
busy yourself
busy yourself with
busy-brained
busy-fingered
busy-headed
busy-idle
busy-tongued
but breath and shadow
but for
but go at once
but good
but now
but piece
but then
but what
but-
but-and-ben
but-end
butacaine sulfate
butane lighter
butane stove
butane torch
butch haircut
butcher bird
butcher knife
butcher linen
butcher paper
butcher rayon
butcher shop
butcher's broom
butcher's meat
butcher's saw
butcher's-broom
butcher-bird
butcher-row
butea gum
butea kino
butea seed
butenedioic acid
butler's pantry
butler's sideboard
buts-and-bens
butt against
butt block
butt bolt
butt chain
butt chisel
butt cut
butt end
butt fitter
butt handler
butt haulier
butt head
butt hinge
butt in
butt joint
butt knuckle
butt leather
butt lifter
butt on
butt out
butt packer
butt plate
butt puller
butt roller
butt rot
butt saw
butt shaft
butt shooting
butt sling
butt strap
butt striker
butt weld
butt welding
butt-headed
butt-in
butt-stock
butter ale
butter basket
butter bean
butter blender
butter boat
butter carrier
butter chip
butter clam
butter color
butter cooler
butter cress
butter crock
butter cutter
butter daisy
butter dealer
butter dipper
butter dish
butter dock
butter duck
butter firkin
butter grinder
butter kit
butter knife
butter maker
butter merchant
butter mold
butter muslin
butter of arsenic
butter of zinc
butter oil
butter packer
butter pat
butter pear
butter pick
butter plate
butter plum
butter print
butter roller
butter salve
butter sauce
butter server
butter shop
butter spreader
butter tooth
butter tree
butter tub
butter up
butter weight
butter yellow
butter your bread on both sides
butter-and-egg man
butter-and-eggs
butter-billed
butter-box
butter-bump
butter-colored
butter-cutting
butter-fingered
butter-mouthed
butter-nut
butter-print
butter-rigged
butter-rose
butter-smooth
butter-toothed
butterboat-bill
butterboat-billed
buttercup family
buttercup yellow
buttered eggs
buttered rum
butterfly agama
butterfly bomb
butterfly bush
butterfly chair
butterfly dam
butterfly damper
butterfly dance
butterfly dock
butterfly fish
butterfly flower
butterfly lily
butterfly map
butterfly net
butterfly nut
butterfly orchid
butterfly orchis
butterfly pea
butterfly plant
butterfly ray
butterfly roof
butterfly table
butterfly tail
butterfly tulip
butterfly valve
butterfly wedge
butterfly weed
butterfly-flower
butterfly-pea
butternut squash
buttery bar
buttery hatch
butting in
butting-in
butting-joint
buttock line
buttock mail
button aster
button balance
button blank
button borer
button bottomer
button burnisher
button cactus
button chrysanthemum
button clamper
button cleaner
button clover
button coverer
button cutter
button day
button die
button dipper
button disease
button driller
button ear
button fastener
button finisher
button flower
button gauge
button grass
button head
button hole
button lac
button maker
button making
button man
button mangrove
button mottler
button pearl
button piercer
button polisher
button quail
button sage
button saw
button scar
button seal
button sedge
button sewer
button shank
button shanker
button shoe
button shoes
button snakerooot
button snakeweed
button sorter
button stamper
button stick
button strike
button switch
button thistle
button tree
button turner
button up
button up your pockets
button willow
button worker
button your lip
button-covering
button-down
button-down collar
button-eared
button-fastening
button-headed
button-hold
button-holder
button-hole
button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyrl-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
buy a piece of
buy a pig in a poke
buy a share of
buy and sell
buy at a bargain
buy at cost
buy at wholesale prices
buy back
buy boat
buy dirt cheap
buy for a mere nothing
buy for a song
buy for nickels and dimes
buy in
buy in futures
buy into
buy it
buy off
buy on credit
buy on the cuff
buy on the installment plan
buy out
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
by cracky
by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
by horse
by ill hap
by ill luck
by inches
by inchmeal
by installments
by instinct
by interpretation
by intervals
by intuition
by itself
by jerks
by land
by law
by leaps and bounds
by little and little
by long odds
by mail
by main force
by marriage
by me
by means of
by memory
by merest chance
by my halidom
by name
by nature
by necessity
by night
by no manner of means
by no means
by odds
by one
by order
by ordinary
by parol
by parts
by preference
by proxy
by quarters
by rail
by reason of
by reason of that
by reflex
by remote control
by request
by return mail
by right
by rights
by rote
by rule of thumb
by sea
by sections
by sight
by skips
by slow degrees
by snatches
by some means
by special delivery
by speech or action
by stages
by stealth
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperament
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by way of opposition
by way of parenthesis
by what means
by what mode
by what name
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
by yourself
by-
by-alley
by-altar
by-and-by
by-and-large
by-bid
by-bidder
by-bidding
by-blow
by-boat
by-channel
by-child
by-chop
by-cock
by-common
by-corner
by-day
by-dependency
by-design
by-doing
by-doing by-drinking
by-drinking
by-dweller
by-effect
by-election
by-end
by-fellow
by-fellowship
by-form
by-gold
by-hour
by-interest
by-issue
by-job
by-land
by-lane
by-law
by-lead
by-line
by-live
by-matter
by-motive
by-name
by-office
by-pass
by-pass capacitor
by-pass condenser
by-passage
by-passed
by-passer
by-passing
by-past
by-path
by-paths
by-place
by-play
by-plot
by-product
by-product oven
by-purpose
by-reaction
by-respect
by-result
by-road
by-room
by-route
by-sitter
by-speech
by-spel
by-stake
by-street
by-stroke
by-talk
by-term
by-the-by
by-the-way
by-thing
by-throw
by-thrust
by-time
by-tone
by-track
by-trail
by-turning
by-view
by-walk
by-walking
by-wash
by-water
by-way
by-west
by-wipe
by-wood
by-word
by-work
by-your-leave
bye-blow
bye-bye
bye-byes
bye-election
bye-low
bye-stake
bye-turn
bye-water
bye-wood
bygone days
bygone times
bypass burner
bypass condenser
bypass engine
bypass ratio
bypaths and crooked ways
byre-man
byre-men
byword of reproach
c & b
c battery
c clef
c ration
c'est autre chose
c'est bien
c'est ca
c'est la guerre
c'est la vie
c'est selon
c-axes
c-axis
c-horizon
c-mitosis
c/-
cS
c a canny
c a sa
c a' canny
c a'-tho'
c a'ing-whale
c a-ca
c aing whale
c ab fare
c ab hire
c abana set
c abaret tax
c abbage aphis
c abbage bark
c abbage bug
c abbage butterfly
c abbage lettuce
c abbage moth
c abbage palm
c abbage palmetto
c abbage repeatedly
c abbage root fly
c abbage rose
c abbage tree
c abbage white
c abbage-leaf miner
c abbage-root maggot
c abbage-tree
c abbage-tree hat
c abbing press
c abin boat
c abin boy
c abin camp
cabin car
cabin class
cabin court
cabin cruiser
cabin deck
cabin hook
cabin plane
cabin tent
cabin-class
cabinet beetle
cabinet cherry
cabinet member
cabinet minister
cabinet picture
cabinet pudding
cabinet scraper
cabinet wine
cabinet-maker
cable address
cable bend
cable buoy
cable car
cable crane
cable length
cable molding
cable railroad
cable railway
cable release
cable road
cable ship
cable stitch
cable television
cable tramway
cable's length
cable-car
cable-laid
cable-stitch
cabriole leg
cac-
cacao bean
cacao butter
cache-cache
cachectic fever
cachou de Laval
cack-handed
caco-
caco-zeal
cocoa bean
cacodyl group
cacodyl radical
acodylic acid
cacoethes scribendi
cactus alkaloid
cactus dahlia
cactus family
cactus geranium
cactus wren
caddie bag
caddie car
caddie cart
caddis bait
caddis case
caddis fly
caddis worm
caddy spoon
cadency mark
cadet blue
cadet cloth
cadet gray
cadet grey
cadge a ride
cadmium bronze
cadmium carmine
cadmium cell
cadmium green
cadmium orange
cadmium poisoning
cadmium red
cadmium standard cell
cadmium sulfide
cadmium sulphate
cadmium sulphide
cadmium vermilion
cadmium yellow
cae-
caen-
cae-stone
caesarian section
caesium clock
cafe au lait
cafe chantant
cafe concert
cafe dansant
cafe noir
cafe society
cafe-society
calc-aphanite
calc-sinter
calc-spar
calc-tufa
calc-tuff
calcaneocuboid ligament
calcareo-
calcareous tufa
calce-scence
calci-
calcined baryta
calcined lime
calcio-
calcium arsenate
calcium bisulphite
calcium carbide
calcium carbonate
calcium caseinate
calcium chloride
calcium creosotate
calcium cyanamide
calcium cyanide
calcium cyclamate
calcium cyclohexylsulfamate
calcium dibromobehenate
calcium fluoride
calcium hydrate
calcium hydroxide
calcium hypochlorite
calcium iodobehenate
calcium lactate
calcium lamp
calcium light
calcium nitrate
calcium oxide
calcium oxych
calcium oxychloride
calcium permanganate
calcium phosphate
calcium propionate
calcium soap
calcium sulfide
calcium sulphate
calcium sulphite
calco-
calculate on
calculate upon
calculate your position
calculated deception
calculated distortion
calculated risk
calculated to
calculating machine
calculus of differences
calculus of finite differences
calculus of individuals
calculus of pleasure
calculus of variations
caldo verde
caldron bottom
calendar art
calendar clock
calendar day
calendar maker
calendar month
calendar of bills
calendar stone
calendar watch
calendar year
calendar-making
calenture of the brain
calf feed
calf leather
calf love
calf's brains
calf's head
calf's liver
calf's tongue
calf's-foot
calf's-foot jelly
calf-skin
cali-
caliatour wood
caliber compass
calibrated scale
calibrating circuit
calibrating terminal
calibrating unit
calico ash
calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
call loan
call mark
call market
call money
call names
call number
call of duty
call off
call on
call on the carpet
call on the phone
call on you for
call option
call out
call over
call price
call rate
call sign
call slip
call spirits from the vasty deep
call the play
call the roll
call the shots
call the signals
call the tune
call the turn
call time
call time-out
call to
call to account
call to active duty
call to arms
call to mind
call to notice
call to order
call to quarters
call to the colors
call to witness
call together
call up
call up spirits
call upon
call upon you for
call upon you to
call your bluff
call your own
call your shot
call your shots
call-back pay
call-board
call-down
call-fire
call-in pay
call-off
call-out
call-over
call-up
calla green
calla lily
calla-
callable bond
callable securities
calledra wood
called for
called home
called on
calli-
calling a spade a spade
calling before the mind’s eye
calling card
calling crab
calling forth
calling party
calling to the mind’s eye
calling-down
calling-over
calliope hummingbird
calliper compasses
calliper rule
calliper splint Med
callis sand
callis-sand
callithumpian band
callosal convolution
callosal gyrus
calm acceptance
calm and free
calm as a mill pond
calm before the storm
calm disposition
calm down
calm mind
calm of mind
calm weather
calm yourself
calm-eyed
calm-minded
calm-throated
calming hand
calo-
calomel electrode
calore sore
calorie chart
calorie counter
calorie engine
calorie-counting
calorific value
calorimeter bomb
calumet dance
calvary cross
calyx drill
calyx spray
calyx teeth
calyx tube
cam chain
cam cleat
cam contactor
cam engine
cam press
cam squeezer
cam switch
cam wheel
cam-contactor switch
cam-cutting machine
cam-wood
camadula seed
camara nutmeg
camass rat
camb sizer
cambe wood
camber arch
camber beam
camber piece
camber slip
camber-keeled
camberwell beauty
cambric grass
cambric muslin
cambric tea
camel back
camel caravan
camel driver
camel grass
camel hay
camel insect
camel litter
camel saddle
camel's hair
camel's hair rug
camel's-hair
camel-backed
camel-faced
camel-grazing
camel-hair
camel-haired
camel-kneed
camel-shaped
camel-yarn
camelback truss
cameline oil
cameo blue
cameo conch
cameo encrustation
cameo glass
cameo pink
cameo role
cameo stamper
cameo ware
camera angle
camera assembler
camera booth
camera deflection generator
camera lucida
camera obscura
camera tube
camera tubes
camera-eye
camera-ready copy
camera-shy
camino real
caminos reales
camomile oil
camp ball
camp bed
camp bird
camp car
camp ceiling
camp chair
camp circle
camp color
camp disease
camp fever
camp fire girl
camp flux
camp follower
camp hospital
camp it up
camp meeting
camp on the trail of
camp out
camp robber
camp root
camp royal
camp sheathing
camp site
camp stove
camp trailer
camp-fight
camp-meeting
camp-out
camp-shedding
camp-shot
camp-site
campaign book
campaign button
campaign chair
campaign chest
campaign commitments
campaign contribution
campaign dinner
campaign for
campaign fund
campaign hat
campaign medal
campaign oratory
campaign promises
campaign ribbon
campaign wig
campeachy wood
campernelle jonquil
campfire girl
camph-  
camphane group
camphor ball
camphor glass
camphor gum
camphor ice
camphor laurel
camphor liniment
camphor oil
camphor tree
camphor water
camphor weed
camphorated oil
campi santi
camping bus
camping ground
camping site
campo pea
campo santo
campos santos
campus shoes
campus university
camra stylo
can buoy
can burnisher
can calm
can capper
can carrier
can coverer
can crimper
can do
can faucet
can filler
can floater
can frame
can header
can hook
can it
can it be
can jacket
can key
can liner
can not
can of worms
can opener
can plug
can press
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can’t be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
can-buoy
can-burnishing
can-can
can-capping
can-cleaning
can-closing
can-crimping
can-dock
can-filling
can-flanging
can-heading
can-hook
can-labeling
can-lacquering
can-lining
can-marking
can-opener
can-opening
can-polishing
can-quaffing
can-salting
can-scoring
can-sealing
can-seaming
can-slitting
can-soldering
can-squeezing
can-stamping
can-sterilizing
can-testing
can-washing
can-weighing
can-wiping
can-wrapping
cana brava
cana espina
canada balsam
canada lynx
canada thistle
canadian french
canal barge
canal boat
canal cell
canal coal
canal lock
canal ray
canal rays
canal system
canal-bone
canal-built
cananga oil
canard sauvage
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
canary seed
canary stone
canary vine
canary weed
canary wine
canary wood
canary yellow
canary-bird
canary-bird flower
canary-yellow
canarybird flower
canarybird vine
cancel out
canceled check
canceled type
cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
cancrinite-syenite
cancrum oris
candelabra lamp holder
candelabra plant
candelabrum tree
candelilla wax
candid camera
candid photograph
candid photography
candied apple
candle alder
candle anemone
candle auction
candle bearer
candle cactus
candle case
candle end
candle ends
candle fly
candle gleam
candle grease
candle hour
candle larkspur
candle lumen
candle mold
candle molder
candle paper
candle plant
candle power
candle rush
candle shade
candle snuff
candle suffer
candle tree
candle tube
candle wicking
candle-beam
candle-bearing
candle-branch
candle-dipper
candle-end
candle-foot
candle-holder
candle-hour
candle-lighter
candle-meter
candle-rent
candle-shaped
candle-snuff
candle-snuff fungus
candle-tapering
candle-tree
candle-waster
candle-wood
candleberry bark
candleberry myrtle
candleberry tree
candlenut oil
candlestick lily
candlewick bedspread
candlewood pine
candy cane
candy carrot
candy corn
candy grass
candy kitchen
candy pull
candy pulling
candy store
candy stripe
candy striper
candy thermometer
candy-striped
cane apple
cane ash
cane blight
cane borer
cane bottoming
cane brimstone
cane cactus
cane chair
cane crusher
cane cutter
cane field
cane fruit
cane gall
cane grass
cane gun
cane killer
cane knife
cane mill
cane osier
cane palm
cane piece
cane press
cane rat
cane reed
cane rush
cane rust
cane seat
cane seating
cane splicer
cane sugar
cane syrup
cane trash
cane weaver
cane webbing
cane withy
cane-backed
cane-bottomed
cane-phorus
cane-seated
canebrake rattler
canebrake rattlesnake
canella alba
canella bark
canella-bark family
cangica-wood
canicola fever
canicular days
canine appetite
canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canna-down
cannabis indica
cannabis resin
canned foods
canned goods
canned heat
canned show
cannel coal
cannel-bone
cannon ball
cannon bit
cannon bone
cannon cracker
cannon curl
cannon fodder
cannon metal
cannon off
cannon pinion
cannon shot
cannon stove
cannon-ball
cannon-ball fruit
cannon-ball tree
cannon-proof
cannon-royal
cannon-shot
cannonball express
cannot choose but
cannot do otherwise
cannot help but
canoe adz
canoe birch
canoe burial
canoe cedar
canoe gum
canoe tent
canoe yacht
canoe yawl
canon bit
canon form
canon law
canon lawyer
canon regular
canonical age
canonical books
canonical form
canonical hour
canonical hours
canonical prayers
canonical writings
canonized mortal
canons regular
canopic jar
canopy of heaven
canopy switch
cant across
cant block
cant body
cant chisel
cant dog
cant file
cant frame
cant hook
cant molding
cant purchase
cant ribband
cant round
cant spar
cant strip
cant timber
canted column
canterbury bell
cantharid luster
cantharides cerate
cantilever bridge
cantilever foundation
cantilever spring
canting arms
canting coat
canting hypocrite
canting quoin
cantle bar
canto fermo
cantocanto fermo
canton blue
canton crepe
canton flannel
canton ginger
cantorial side
cantus figuratus
cantus firmus
cantus planus
canvas baster
canvas board
canvas dam
canvas dresser
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
cap scuttle
cap spinning
cap square
cap the climax
cap verses
cap-a-pie
cap-case
cap-flash
cap-in-hand
cap-paper
cap-stone
capable of
capable of life
capable of living
capable of solution
capable of survival
capacitive coupling
capital gains distribution
capital gains tax
capital goods
capital investment
capital joke
capital levy
capital loss
capital market
capital operation
capital punishment
capital ship
capital stock
capital stock n
capital structure
capital style
capital styles
capital sum
capital surplus
capital transfer tax
capitalist economy
capitalistic economy
capitalistic system
capitalization issue
capitalize on
capitate bone
capitation grant
capitation tax
capo tasto
capoor cutchery
cappa magna
capped elbow
capped hock
capped pawn
capping fee
capping plane
capple-faced
capric acid
capricorn beetle
caprifig wasp
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsula-
captain ball
captain general
captain glass
captain lieutenant
captain of industry
captain's biscuit
captain's chair
captain's mast
captain's table
captain's walk
captain-generalcy
captain-lieutenant
captaincy general
captains general
captious critic
captive audience
captive balloon
captive bolt
captive nation
captive test
capture on film
capture theory
captured-air bubble
captured-air vehicle
capuchin capers
capucine buff
capucine lake
capucine madder
capucine orange
capucine red
capucine yellow
caput mortuum
car accounting
car bit
car brake
car card
car coat
car coupler
car coupling
car dumper
car ferry
car float
car frame
car framer
car greaser
car heater
car knocker
car line
car lot
car mileage
car movement
car of Jagannath
car of Juggernaut
car park
car pool
car rail
car replacer
car retarder
car ride
car sealer
car service
car shed
car sickness
car starter
car step
car track
car wash
car wheel
car wheeler
car-borne
car-dumping
car-mile
car-replacing
car-tunnel kiln
caramel cream
caramel cutter
carap nut
carap oil
carap tree
carap wood
carapa nut
carapa oil
carapa tree
carapa wood
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicride
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbro process
carbureted-hydrogen gas
carburetor altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brusher
card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer
card-carrier
card-carrying
card-carrying Communist
card-carrying member
card-counting
card-cut
card-cutting
card-devoted
card-index
card-perforating
card-printing
card-setting machine
card-sorting
cardamom oil
carder bee
cardi-
cardiac arrest
cardiac cycle
cardiac epilepsy
cardiac glucoside
cardiac glycoside
cardiac hormone
cardiac infarction
cardiac insufficiency
cardiac neurosis
cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
cardinal system
cardinal virtue
cardinal virtues
cardinal vowel
cardinal's hat
cardinal-bishop
cardinal-deacon
cardinal-flower
cardinal-priest
cardinal-red
carding hair
carding machine
carding thistle
carding wool
cardio-
cardio-aortic
cardio-inhibitory
cardiogenic shock
cardioid microphone
cardiovascular disease
cards and spades
care a snap
care a snap of your fingers for
care about
care for
care for truth
care naught for
care nothing about
care nothing for
care of souls
care sunday
care-bewitching
care-bringing
care-charmer Sleep
care-charming
care-cloth
care-crazed
care-crossed
care-defying
care-dispelling
care-eluding
care-encumbered
care-fraught
care-killing
care-laden
care-lined
care-scorched
care-taker
care-tired
care-tuned
care-wounded
career building
career diplomat
career girl
career man
career politics
career soldiers
careers master
careful consideration
carefully ignore
careless abandon
cress the ear
cargo boat
cargo carrier
cargo checker
carob gum
carob tree
caroline hat
carom ball
carom into
carotid artery
carotid body
carotid gland
carotid sinus
carp at
carp louse
carp sucker
carp-
carpal tunnel syndrome
carpe diem
carpenter ant
carpenter bee
carpenter bird
carpenter grass
carpenter moth
carpenter’s hammer
carpenter’s square
carpet alterer
carpet beating
carpet bed
carpet bedding
carpet beetle
carpet binding
carpet bombing
carpet braid
carpet broom
carpet brush
carpet bug
carpet chair
carpet cleaner
carpet cleaning
carpet dance
carpet dealer
carpet drive
carpet dyer
carpet fastener
carpet filler
carpet fillings
carpet finisher
carpet fitter
carpet fixer
carpet folder
carpet grass
carpet hemmer
carpet knight
carpet lining
carpet loom
carpet machinist
carpet maker
carpet mill
carpet moth
carpet needle
carpet opener
carpet picker
carpet pink
carpet planner
carpet printer
carpet printing
carpet rags
carpet renovator
carpet repairer
carpet rod
carpet sewer
carpet shark
carpet shell
carpet shredder
carpet slipper
carpet snake
carpet sorter
carpet stitch
carpet stretcher
carpet Sweeper
carpet tack
carpet thread
carpet twisting
carpet weaver
carpet weaving
carpet wool
carpet yarn
carpet-bag
carpet-bagger
carpet-covered
carpet-cut
carpet-knight
carpet-smooth
carpet-sweeper
carpetweed family
carpo-
carpo-olecranal
carriage apron
carriage blind
carriage body
carriage bolt
carriage boot
carriage bow
carriage bridge
carriage builder
carriage building
carriage cleaner
carriage cleaning
carriage company
carriage coupler
carriage coupling
carriage dog
carriage drive
carriage driver
carriage entrance
carriage forward
carriage free
carriage gate
carriage guard
carriage harness
carriage head
carriage horse
carriage house
carriage hub
carriage iron
carriage ironer
carriage joiner
carriage lady
carriage lamp
carriage lampman
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wiper
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carrion fungus
carrion hawk
carron oil
carrot beetle
carrot eating
carrot family
carrot fern
carrot orange
carrot pudding
carrot red
carrot rust fly
carrot soft rot
carrot tree
carrot-colored
carrot-head
carrot-headed
carrot-pated
carrot-shaped
carrot-top
carry a card
carry a tune
carry all before one
carry all before you
carry arms
carry authority
carry away
carry back
carry back in recollection
carry bag
carry by storm
carry coals to Newcastle
carry conviction
carry forward
carry in your thoughts
carry into effect
carry into execution
carry it
carry lee helm
carry off
carry on
carry on a business
carry on a conversation
carry on a propaganda
carry on a trade
carry on an inquiry
carry on business
carry on hostilities
carry on over
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cart aver
cart away
cart driver
cart horse
cart ladder
cart leather
cart maker
cart off
cart road
cart rope
cart track
cart wheel
cart whip
cart-rutted
cart-track plant
cart-wheel
cartage contractor
carte blanche
carte d'entrée
carte de visite
carte du jour
carte-de-visite
cartel ship
cartes blanches
cartes de visite
cartes du jour
cartesian coordinate
cartilage bone
cartilage cell
cartilage pit
cartilaginous fish
cartilaginous quittor
carton of cigarettes
carton-pierre
cartridge annealer
cartridge bag
cartridge belt
cartridge blocker
cartridge box
cartridge brass
cartridge buff
cartridge case
cartridge clip
cartridge filler
cartridge fuse
cartridge gauge
cartridge heater
cartridge loader
cartridge loading
cartridge maker
cartridge making
cartridge paper
cartridge pen
cartridge primer
cartridge priming
carve out
carve up
carve your way
carvel joint
carvel work
carvel-built
carvel-planked
carving fork
carving knife
cary-
caryo-
casaba melon
casagha pine
casca bark
cascade amplification
cascade connection
cascade control
cascade converter
cascade method
cascade screen
cascade system
cascade transformer
cascade-connect
cascara amarga
cascara buckthorn
cascara sagrada
cascarilla bark
cascarilla oil
case bay
case binding
case bolt
case bottle
case card
case count
case ending
case furniture
case glass
case goods
case grammar
case gun
case hammer
case harden
case hardening
case history
case in point
case in question
case knife
case law
case lawyer
case made
cash discount
cash dividend
cash down
cash drawer
cash flow
cash in
cash in hand
cash in on
cash in your checks
cash in your chips
cash journal
cash letter
cash line
cash money
cash on delivery
cash on the barrelhead
cash on the nail
cash payment
cash price
cash purchase
cash railway
cash ratio
cash register
cash remittance
cash reserves
cash sale
cash store
cash supply
cash surrender value
cash tenant
cash terms
cash up
cash value
cash-and-carry
cash-book
cash-refund annuity
cashed up
cashew apple
cashew bird
cashew family
cashew lake
cashew nut
cashier's check
cashmere shawl
cashmere sweater
casing cutter
casing dog
casing head
casing knife
casing nail
casing shoe
casing spear
casing splitter
casing spool
casing swab
casing-head gas
casing-head gasoline
casing-in
casinghead gas
casino pink
cask marker
cask-shaped
cassava wood
casse paper
casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggen-gird
cast a nativity
cast a pall upon
cast a reproach upon
cast a shadow
cast a slur on
cast a slur upon
cast a spell
cast a traverse
cast about
cast about for
cast anchor
cast aside
cast aspersions on
cast at
cast away
cast back
cast blame upon
cast coquettish glances
cast down
cast envious eyes
cast forth
cast gear
cast in a different mold
cast in prison
cast in the eye
cast in the same mold
cast in your lot with
cast in your teeth
cast into hell
cast iron
cast light upon
cast loose
cast lots
cast naked upon the naked earth
cast of characters
cast of countenance
cast of the dice
cast off
cast on
cast out
cast out devils
cast pearls before swine
cast plastic
cast plow
cast reflection upon
cast reflections on
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-buttressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
casual clothes
casual discovery
casual dress
casual house
casual laborer
casual remark
casual suit
casual ward
casual water
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
catch off your guard
catch off-guard
catch on
catch on fire
catch on to
catch out
catch phrase
catch pit
catch points
catch question
catch red-handed
catch short
catch siding
catch sight of
catch stitch
catch the attention
catch the drift
catercorner kitty-corner
caterpillar catcher
caterpillar fern
caterpillar fungus
caterpillar gate
caterpillar hunter
caterpillar plant
caterpillar tractor
caterpillar tread
catfoot poplar
cath-
catharina wheel
cathead chuck
cathead stopper
cathecetic energy
cathedral builder
cathedral ceiling
cathedral chimes
cathedral church
cathedral close
cathedral dome
cathedral glass
cathedral music
cathedral service
cathedral tower
cathedral town
cathedral walk
cathedral-like
catherine wheel
catherer fever
cathode current
cathode dark space
cathode drop
cathode glow
cathode luminescence
cathode particle
cathode ray
cathode rays
cathode-ray oscillograph
cathode-ray osciloscope
cathode-ray tube
cathodic protection
cathodo-luminescent
catholic-
cation detergent
cation-active
cationic detergent
catjang pea
cats and dogs
cattail family
cattail flag
cattail fungus
cattail grass
cattail millet
cattail rush
cattle boat
cattle breeder
cattle breeding
cattle buyer
cattle camp
cattle car
cattle crossing
cattle dealer
cattle dehorner
cattle dog
cattle drover
cattle egret
cattle farcy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 34484


cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck
cattle wire
cattle-grid
cattle-guard
cattle-plague
cattle-ranching
cattle-specked
cattleya guava
cattleya fly
catty-co
catty-corner
catty-cornered
caucus nomination
cauda galli
cauda-galli grit
caudal anesthesia
caudal appendage
caudal fin
caudal peduncle
caudle cup
cought in your own trap
cought napping
cought off balance
cought off base
cought short
cought tripping
cought up in
cought with your pants down
caul board
caul fat
cauliflower cheese
cauliflower disease
cauliflower ear
cauliflower excrescence
cauliflower ware
cauliflower-eared
caulk off
caulking chisel
caulking cotton
caulking iron
caulking tool
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause clbre
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cause vertigo
cause-and-effect
caused by
causeway grass
causing cause
caustic alcohol
caustic baryta
caustic critic
caustic curve
caustic lime
caustic potash
caustic remark
caustic soda
caustic surface
caution card
caution light
cautions money
cavalier battery
cavalier projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavalieri serventi
cavalry bone
cavalry horse
cavalry saddle
cavalry tactics
cavalry twill
cave art
cave bear
cave beetle
cave canem
cave cricket
cave drawing
cave dweller
cave dwelling
cave earth
cave fish
cave hunter
cave hyena
cave in
cave lion
cave man
cave of Trophonius
cave of despair
cave painting
cave pearl
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
ceiling hook
ceiling joist
ceiling light
ceiling piece
ceiling plate
ceiling price
ceiling projector
ceiling unlimited
ceiling zero
ceiling-height indicator
ceilinged roof
cela saute aux yeux
cela va sans dire
celadon green
celandine green
celandine poppy
celebrate Mass
celery blight
celery cabbage
celery family
celery grass
celery mosaic
celery oil
celery pine
celery root
celery salt
celery seed
celery yellows
celery-leaved
celery-topped
celestial being
celestial beings
celestial blue
celestial body
celestial chart
celestial crown
celestial equator
celestial globe
celestial guidance
celestial hierarchy
celestial horizon
celestial kingdom
celestial latitude
celestial longitude
celestial marriage
celestial mechanics
celestial meridian
celestial navigation
celestial pole
celestial spaces
celestial sphere
celestial throne
celiac disease
celiac plexus
cell body
cell bridge
cell cavity
cell charger
cell cleavage
cell count
cell cup
cell division
cell doctrine
cell family
cell house
cell kernel
cell membrane
cell multiplication
cell nest
cell nucleus
cell organ
cell physiology
cell plasm
cell plate
cell product
cell proliferation
cell sap
cell substance
cell tester
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
celophane tape
cellular kite
cellular tissue
cellulo-
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
center of projection
center of similitude
center of suspension
center of symmetry
center of the mind
center of volume
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficiency
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centri-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephy-
ccephalic index
cephal-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerat-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsied
cerebral palsy
cerebral rheumatism
cerebral shock
cerebral tabs
cerebral tuberculosis
cerebro-
cerebro-ocular
cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerinic acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerre-tree
cerro green
certain knowledge
certain person
certainly not
certifiable case
certificate of admeasurement
certificate of character
certificate of deposit
certificate of enrollment
certificate of incorporation
certificate of indebtedness
certificate of insurance
certificate of invention
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo-
cervical smear
cervico-
cervico-occipital
cervico-orbicular
ceryl alcohol
cessation of combat
cessation of life
cessio bonorum
cestui que trust
cestui que use
cet-
cetane number
cetane rating
cetera desunt
ceteris paribus
cetyl alcohol
cetyl palmitate
cetylic acid
chain fern
chain gang
chain gear
chain gearing
chain grab
chain grate
chain guard
chain harrow
chain hoist
chain hook
chain isomerism
chain joiner
chain joiner
chain knot
chain letter
chain lightning
chain line
chain link fence
chain linker
chain locker
chain mail
chain maker
chain mark
chain measure
chain mechanism
chain of being
chain of cause and effect
chain of circumstances
chain of command
chain of evidence
chain of ideas
chain of office
chain of thought
chain pickerel
chain pillar
chain pin
chain pipe
chain plate
chain printer
chain pulley
chain pump
chain reaction
chain reactor
chain reasoning
chain reflex
chain riveting
chain rule
chain saw
chain shot
chain smoker
chain smoking
chain snake
chain splice
chain stitch
chain store
chain survey
chain syllogism
chain tape
chain tongs
chain towing
chain twist
chain victory to your car
chain wale
chain warper
chain welder
chain well
chain wheel
chain whip
chain winding
chain wrench
chain-bag
chain-bridge
chain-driven
chain-drooped
chain-grate stoker
chain-mail armor
chain-pull lamp holder
chain-pull switch
chain-pump
chain-react
chain-reacting
chain-reacting pile
chain-shaped
chain-shot
chain-smoke
chain-smoked
chain-smoker
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
chair cane
chair car
chair leg
chair lift
chair of English
chair organ
chair rail
chair seat
chair seater
chair shaper
chair table
chair turner
chair, the
chair-fast
chair-mortising
chair-shaped
chair-warmer
chairman of the board
chaise cart
chaise d'or
chaise longue
chaise longues
chaise lounge
chaise-longue
chaise-marine
chaises longues
chakazzi copal
chalcedony yellow
chalcid fly
chalcid wasp
chalcis fly
chalco-
challice cell
challice flower
challice moss
challice veil
challice vine
chalk and talk
chalk burner
chalk cliff
chalk down
chalk dust
chalk engraving
chalk flint
chalk hill
chalk lime
chalk line
chalk maple
chalk mixture
chalk out
chalk pit
chalk plant
chalk process
chalk quarry
chalk stripe
chalk talk
chalk talker
chalk up
chalk-eating
chalk-eyed
chalk-plate process
chalk-stone
chalk-talk
chalk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleon grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champleve enamel
chance arrival
chance at odds
chance bairn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandelier tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
changements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
channel stone
channel-back chair
chanson de geste
chansons de geste
chant du cygne
chante-fable
chante-fables
chantry priest
chaotic heart
characteristic vector
characteristic velocity
characteristic x-ray
charcoal black
charcoal burner
charcoal drawing
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
charge the jury
charge to
charge to experience
charge to the jury
charge to your account
charge up
charge upon
charge weigher
charge with
charge-a-plate
charge-exchange accelerator
charge-house
charge-off
chargeable to
charged moment
charged up
charges forward
charging of the jury
charging order
charging rate
charging stick
chariot driver
chariot driving
chariot plane
chariot pole
chariot race
chariot racer
chariot side
chariot wheel
chariot-shaped
charismatic figure
charismatic gift
charismatic leader
charismatic movement
charismatic renewal
charity ball
charity bazaar
charity boy
charity case
charity commission
charity girl
charity house
charity school
charity stamp
charity ward
charity work
charity worker
charles's wain
charley horse
charlotte russe
charm school
charm the birds out of the trees
charm-bound
charm-built
charm-engirdled
charm-struck
charmed circle
charmed life
carnel house
chart a course
chart house
chart room
charter colony
charter hand
charter hold
charter land
charter member
charter party
charter school
charter-party
chartered accountant
chartered bus
chartreuse green
chartreuse tint
chartreuse yellow
chase after
chase away
chase gun
chase halter
chase hoop
chase mortise
chase mortised
chase off
chase out
chase piece
chase port
chase ring
chase up a stump
chase up a tree
chase women
chase your tail
chase-hooped
chase-hooping
chase-mortised
chaser hob
chasing lathe
chasse-maree
chassis fitter
chassis painter
chaste and fair
chaste as morning dew
chaste tree
chastity belt
chat show
chat up
chateau gray
chateau wine
chaton foil
chattel house
chattel interest
chattel mortgage
chattel slave
chattels personal
chattels real
chatter mark
chatter water
chatterbox tree
chattering of the teeth
chaud-froid
chaud-melle
chaulmoogra oil
chaun-
chaw-bacon
chaw-stick
che sara sara
che-choy
chadle dock
cheap as dirt
cheap at half the price
cheap at the price
cheap item
cheap money
cheap rates
cheap shot
cheap skate
cheap-jack
cheap-john
cheat death
cheat on
cheat the undertaker
check a parameter
check and doublecheck
check binding
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
check lock
check mark
check nut
check of
check off
check on
check out
check over
check over and through
check punch
check puncher
check rail
check ring
check roller
check sheet
check side
check stamp
check stamper
check stopper
check system
check the growth of
check the helm
check through
check up
check up and down
check up on
check valve
check washer
check your speech
check-canceling
check-endorsing
check-flood
check-in
check-out
check-out pilot
check-over
check-perforating
check-roll
check-stone
check-string
check-writing
chemical analysis
chemical apparatus
chemical bond
chemical closet
chemical corps
chemical detector
chemical dictionary
chemical dynamics
chemical element
chemical elements
chemical engineer
chemical engineering
chemical equation
chemical fertilizer
chemical fuse
chemical lead
chemical physics
chemical potential
chemical reaction
chemical rocket
chemical solution
chemical sympathectomy
chemical toilet
chemical warfare
chemically pure
chemico-
chemin de fer
chemist's shop
chemo-
chemosynthetic bacteria
chenille Axminster
chenille carpet
chenille plant
chenille rug
chenopodium oil
cheoplastic metal
cheque card
chequer-chamber
chequer-wise
chequer-work
chequered flag
cherchez la femme
cherish a belief
cherish a feeling
cherish an idea
cherish at the heart's core
cherish the hope
cherish the memory of
cherokee rose
cheroonjie nut
cherry aphid
cherry apple
cherry bay
cherry birch
cherry bird
cherry bomb
cherry bounce
cherry brandy
cherry chopper
cherry coal
cherry coffee
cherry cordial
cherry country
cherry crab
cherry crush
cherry currant
cherry fair
cherry finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cherry scale
cherry seeder
cherry slug
cherry smash
cherry stone
cherry stoner
cherry sucker
cherry tomato
cherry wine
cherry-bob
cherry-cheeked
cherry-colored
cherry-crimson
cherry-flavored
cherry-laurel oil
cherry-lipped
cherry-merry
cherry-pie
cherry-red
cherry-ripe
cherry-rose
cherry-tree gum
cherry-wood
chert quarrier
chesapeake bay retriever
cheshire cat
cheshire cheese
chess apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue
chest X-ray
chest expander
chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-founedered
chest-on-chest
chested arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
chevron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
chez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chickasaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken colonel
chicken coop
chicken corn
chicken fancier
chicken farm
chicken farmer
chicken farming
chicken feed
chicken foot
chicken grape
chicken gumbo
chicken halibut
chicken hawk
chicken hazard
chicken heart
chicken house
chicken ladder
chicken liver
chicken louse
chicken mite
chicken out
chicken paprikas
chicken pepper
chicken pest
chicken plover
chicken pox
chicken ranch
chicken roost
chicken salad
chicken septicemia
chicken snake
chicken soup
chicken switch
chicken thief
chicken tick
chicken tortoise
chicken turtle
chicken wire
chicken yard
chicken-billed
chicken-brained
chicken-breasted
chicken-breastedness
chicken-farming
chicken-hazard
chicken-hearted
chicken-heartedly
chicken-heartedness
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
chickweed phlox
chickweed wintergreen
chicle bleeder
chicle gum
chico mamey
chicory family
chief constable
chief cook
chief engineer
Chief executive
Chief executive officer
Chief justice
Chief justiceship
Chief librarian
Chief master sergeant
Chief mate
Chief of police
Chief of staff
Chief of state
Chief of the deadly sins
Chief officer
Chief petty officer
Chief pilot
Chief rabbi
Chief thing
Chief warrant officer
Chief-justiceship
Chief-pledge
Chiefly Austral
Chiff chaff
Chiff-chaff
Chignon bob
Chigoe flea
Chigoe-poison
Chih hsien
Child actor
Child benefit
Child born out of wedlock
Child care
Child guidance
Child labor
Child labour
Child life
Child mind
Child minder
Child of nature
Child prodigy
Child psychiatry
Child psychology
Child rearing
Child welfare
Child's play
Child-bearing
Child-berief
Child-birth
Child-fashion
Child-god
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repairer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chin fly
chin music
chin rest
chin shield
chin stay
chin strap
chin whiskers
chin-bearded
chin-bone
chip board
chip break
chip budding
chip carving
chip in
chip log
chip of
chip of the old block
chip off
chip off the old block
chip on the shoulder
chip on your shoulder
chip pan
chip ring
chip shot
chip-hat palm
chip-proof
chipped beef
chipper-up
chipping ax
chipping bit
chipping chisel
chipping hammer
chipping piece
chipping sparrow
chipping squirrel
chiquichiqui palm
chir pine
chir-
chirk up
chiro-
chirp like a cricket
chisel bit
chisel grinder
chisel in
chisel maker
chisel making
chisel point
chisel steel
chisel temper
chisel tooth
chisel-cut
chisel-edged
chisel-pointed
chisel-shaped
chit-chat
chitino-arenaceous
chito melon
chittam bark
chittem bark
chitter-chatter
chittim bark
chitty-face
chive garlic
chlor-
chloracetic acid
chlord hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
chocolate-flower
chocolate-red
chocaw-root
choice bit of dirt
choice morsel
choice of Hercules
choice of words
choice reaction
choice-drawn
choir aisle
choir chaplain
choir invisible
choir loft
choir manual
choir member
choir organ
choir rail
choir school
choir screen
choir stall
choir wall
choke apple
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chol-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
chol-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose out
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chop mark
chop sooy
chop stroke
chop suey
chop-cherry
chop-chop
chop-church
chop-fallen
chop-house
chop-logic
chop-stick
chop-suey
chopped steak
chopped-off
chopper cot
chopper tool
chopping block
chopping knife
chopping sea
choppy sea
chor bishop
choral conductor
choral dancer
choral dancing
choral director
choral fantasy
choral group
choral music
choral service
choral singer
choral singing
choral society
choral speaking
choral symphony
chorale prelude
chord chart
chord of the sixth
chord organ
chord packing
chord pitch
chord symbol
chorda dorsalis
chorda tendinea
chorda tympani
chordae tendineae
chore boy
chorea minor
chore/o-
chori-
chorioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
chose local
chose transitory
chosen freeholder
chosen kind
chosen people
chosen sort
choses in action
choses in possession
chooses local
chooses transitory
chota hazri
chou moellier
chou paste
chou pastry
chou-fleur
chouse out of
choux pastry
chow chow
chow down
chow line
chow mein
chow-chow
chrisom child
christ's-thorn
christ-cross
christ-cross-row
christ-like
christ-tide
christcross-row
christian brother
christian dor
christian era
christian name
christian reformed
christian science
christiano-
christmas tree
christo-
christy minstrel
chrom-
chroma-blind
chromium family
chromium green
chromium oxide
chromium plate
chromium potassium sulfate
chromium sesquioxide
chromium steel
chromium trioxide
chromium yellow
chromium-plate
chromium-plated
chromo-
chromo-arsenate
chromosome complement
chromosome number
chromyl chloride
chron-
chronic alcoholic
chronic alcoholism
chronic bronchitis
chronic condition
chronic disease
chronic drunk
chronic ill health
chronic infectious arthritis
chronic inflammation
chronic leukemia
chronic pauperism
chronic poor
chronic poverty area
chronicle drama
chronicle history
chronicle play
chronique scandaleuse
chroniques scandaleuses
chrono-
chronological error
chronometer escapement
chrys-
chrysalis oil
chrysanthemum dog
chrysanthemum rust
chryso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
chukka boot
chukka boots
chukker brown
chulan family
chum salmon
chum together
chum with
chump end
chupa-chupa
church bell
church book
church calendar
church council
church dignitary
church door
church father
church feast
church furnishing
church house
church invisible
church key
church member
church militant
church mode
church mouse
church music
church of england
church office
church organ
church parade
church part
church rate
church school
church seat
church service
church slavic
church suffering
church text
church triumphant
church vessel
church visible
church wedding
church work
church worker
church year
church-ale
church-chopper
church-door
church-gang
church-garth
church-government
church-papist
church-scot
church-soken
church-ward
churchyard cross
churidar pyjamas
churn drill
churn molding
churn out
churn supper
churn up
churn-buttock
churr-owl
churr-worm
chute system
chute the chute
chute the chutes
chute-the-chute
chute-the-chutes
chylo-
chymo-
chymo-
ci-
ci-devant
ciba blue
cicada killer
cicatricial tissue
cich-pea
cider brandy
cider cup
cider gum
cider jack
cider maker
cider making
cider mill
cider press
cider tree
cider vinegar
cider wine
cigar beetle
cigar binder
cigar box
cigar case
cigar case-bearer
cigar clipper
cigar cutter
cigar holder
cigar lighter
cigar machine
cigar machinist
cigar maker
cigar making
cigar mold
cigar molder
cigar packer
cigar roller
cigar rolling
cigar smoker
cigar sorter
cigar spot
cigar store
cigar-box cedar
cigar-flower
cigar-loving
cigar-shaped
cigar-smoker
cigar-store Indian
cigarette beetle
cigarette break
cigarette butt
cigarette card
cigarette case
cigarette drain
cigarette end
cigarette factory
cigarette girl
cigarette holder
cigarette lighter
cigarette machine
cigarette maker
cigarette making
cigarette paper
cigarette roller
cigarette smuggling
cigarette sorter
cigarette tobacco
cigarette-smoker
ciliary body
ciliary muscle
ciliary process
ciliate-leaved
ciliate-toothed
cilo-spinal
cinch bill
cinch up
cinchona bark
cinder block
cinder breaker
cinder concrete
cinder cone
cinder frame
cinder gray
cinder mill
cinder notch
cinder patch
cinder path
cinder pig
cinder pit
cinder tap
cinder track
cine camera
cine film
cine-
cinema operator
cinema red
cinema theater
cinema verite
cinerary urn
cineres clavellati
cingulate gyrus
cinma vrit
cinnabar green
cinnabar red
cinnamic acid
cinnamic alcohol
cinnamic aldehyde
cinnamon apple
cinnamon bark
cinnamon bear
cinnamon brown
cinnamon fern
cinnamon flower
cinnamon honeysuckle
cinnamon oak
cinnamon oil
cinnamon rose
cinnamon sedge
cinnamon stone
cinnamon teal
cinnamon vine
cinnamon water
cinnamon-bark oil
cinnamon-leaf oil
cinnamoyl group
cinnamoyl radical
cinnamyl acetate
cinnamyl group
cinnamyl radical
cinque point
cinque ports
cinque-spotted
cipher disk
cipher up
circassian walnut
circle brick
circle cutter
circle driller
circle finisher
circle geometry
circle graph
circle in
circle of confusion
circle of convergence
circle of curvature
circle of least confusion
circle of the sphere
circle out
circle setter
circle shear
circle shears
circle squarer
circle theater
circle tour
circle trowel
circle-branching
circle-in
circle-out
circle-shearing
circle-squaring
circle-wise
circled about
circling boy
circling disease
circling-in
circling-out
circuit analysis
circuit analyzer
circuit binding
circuit breaker
circuit court
circuit court of appeals
circuit drive
circuit edges
circuit judge
circuit justice
circuit network
circuit rider
circuit training
circuit-riding
circuital field
circular argument
circular constant
circular error
.circular error probable
.circular function
.circular knitting
circular letter
.circular light
.circular measure
.circular mil
.circular note
.circular pitch
.circular plane
.circular polarization
.circular probable error
.circular sailing
.circular saw
.circular triangle
.circular velocity
.circular-cut
.circular-cut file
.circular-knit
.circulate a petition
.circulating capital
.circulating capital goods
.circulating decimal
.circulating equation
.circulating library
.circulating medium
.circulatory collapse
.circulatory disease
.circulatory system
circum-
circum-meridian
circumflex accent
circumscribed by
circumstantial evidence
circumvent the law
.circus artist
.circus make-up
.circus movement
.circus performer
.circus rider
.circus tent
.circus troupe
.cire perdue
.cire-perdue
cirl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulus
cirro-filum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratous
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
cirrus stripe
cirrus uncinus
cis-
cis-Elizabethan
cis-elysian
cis-polyisoprene rubber
cis-trans
cis-trans test
cist grave
cistern barometer
cite a case in point
cite a particular
cite cases in point
cite on several counts
cite particulars
citizen by adoption
citizen of the world
citizens band
citizenship by adoption
citizenship by birth
citizenship by naturalization
citizenship paper
citizenship papers
cito disp
citr-
citra-
citrate of magnesia
citric acid
citric acid cycle
citricola scale
citron butterfly
citron green
citron melon
citron water
citron wood
citron yellow
citron-colored
citron-yellow
citronella circuit
citronella grass
citronella oil
citrovorum factor
citrus anthracnose
citrus belt
citrus black fly
citrus blast
citrus canker
citrus fruit
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
civil disorder
civil engineer
civil engineering
civil government
civil jurisdiction
civil law
civil liberties
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil time
civil war
civil wedding
civil year
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
cleck box
cleck door
cleck goose
cleck valve
cloado-
claim agent
claim as your right
claim attention
claim jumper
claim sanctuary
claim squatter's right
claim to be
claim your mind
claim your pound of flesh
claim your thoughts
claim-jumper
claim-jumping
claiming race
claire de lune
clair-obscure
clam chowder
clam digger
clam diggers
clam shell
clam up
clamber up
clammy azalea
clammy honeysuckle
clammy locust
clamor for
clamp bushing
clamp cell
clamp connection
clamp coupling
clamp dog
clamp down
clamp down on
clamp jig
clamp rail
clamp truck
clamp downing
clamshell brake
clamshell bucket
clamshell door
clamshell doors
clan tartan
clan totemism
clandestine behavior
clang association
clang color
clang tint
clap eyes on
clap hands
clap hands on
clap hold of
clap in jail
clap in prison
clap of thunder
clap on
clap on ratlines
clap on sail
clap on the back
clap sill
clap spurs to your horse
clap the hands
clap together
clap up
clap-net
clap-stick
clapped out
clapper block
clapper box
clapper bridge
clapper rail
clapper valve
clapper-claw
clapping of hands
clare-obscure
claret brown
claret cup
claret dun
claret red
claribel flute
clarified butter
clarin trumpet
clarinet flute
clarion call
clarion-voiced
claro obscuro
clash gear
clash in color
clash of arms
clash with
classing colors
classingly colored
clasp hook
clap knife
clap lock
clap nut
clasping-leaved
class boat
class bond
class conflict
class consciousness
class day
class dialect
class distinction
class hatred
class inclusion
class interval
class leader
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
classico-lombardic
classification schedule
classification society
classification track
classification yard
classified ad
classified advertisement
classified advertising
classified catalog
classified directory
classified information
classroom building
clatter about
clause boundary
clause terminal
claustral prior
claver grass
clavicembal damour
claviculo-humeral
claw back
claw balk
claw bar
claw clutch
claw fern
claw foot
claw hammer
claw hand
claw hatchet
claw nut
claw off
claw setting
claw sickness
claw skyward
claw to windward of
claw your way up
claw-and-ball foot
claw-footed
claw-hammer coat
claw-tailed
clay agitator
clay band
clay burner
clay burning
clay court
clay crusher
clay digger
clay drab
clay drier
clay eater
clay fever
clay flour
clay grinder
clay iron
clay loam
clay marl
clay mill
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-built
clay-cold
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clayver-grass
clean as a hound's tooth
clean as a new penny
clean as a whistle
clean bill of health
clean bomb
clean forget
clean forgotten
clean full
clean hands
clean house
clean out
clean profit
clean room
clean rum
clean slate
clean sweep
clean up
clean up on
clean-
clean-appearing
clean-armed
clean-boled
clean-bred
clean-built
clean-complexioned
clean-cut
clean-faced
clean-feeding
clean-fingered
clean-grained
clean-handed
clean-legged
clean-limbed
clean-lived
clean-living
clean-looking
clean-made
clean-minded
clean-moving
clean-sailing
clean-saying
clean-seeming
clean-shanked
clean-shaped
clean-shaved
clean-shaven
clean-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
clear as day
clear as ditch water
clear as glass
clear as mud
clear as the nose on your face
clear away
clear coast
clear conscience
clear course
clear eyes
clear for action
clear hawse
clear obscure
clear of
clear off
clear off old scores
clear out
clear plastic
clear profit
clear road
clear sailing
clear shellac
clear sight
clear soup
clear space
clear stage
clear text
clear the air
clear the board
clear the decks
clear the hurdle
clear the land
clear the mind
clear the mind of
clear the path for
clear the road for
clear the skirts of
clear the throat
clear the trade
clear the way
clear thinking
clear to hell and gone
clear up
clear varnish
clear wax
clear your name
clear-air turbulence
clear-boled
clear-channel station
clear-cole
clear-complexioned
clear-crested
clear-cut
clear-cutness
clear-cutting
clear-eye
clear-eyed
clear-eyes
clear-faced
clear-featured
clear-hawse breeches
clear-hawse pendant
clear-headed
clear-minded
clear-mindedness
clear-obscurc
clear-sighted
clear-sightedly
clear-sightedness
clear-skinned
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
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clearing house
clearing lease
clearing loan
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clearing nut
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clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
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clearinghouse stock
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cleavage nucleus
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clerical insignia
clerical order
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clerk of the works
clerk regular
clerk vicar
clerk-ale
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clish-clash
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cloak yourself with
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cloak-and-dagger work
cloak-and-suiter
cloak-and-sword
cloak-fashion
cloak-room
cloaked in darkness
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clock chart
clock correction
clock error
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cloister vault
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close acquaintance
close arrest
close at hand
close attention
close borough
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close corporation
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close fighting
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close friend
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close helmet
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close in on
close inquiry
close juncture
close likeness
close line
close main vents
close match
close of day
close off
close on
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close out
close position
close quarters
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close reach
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close reproduction
close resemblance
close season
close secrecy
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-at-hand
close-banded
close-barred
close-bitten
close-bodied
close-bred
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closet queen
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closing up
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closure rail
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cloth beam
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cloud-wrapped
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clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
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clown around
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clump foot
clump-head grass
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clumsy-fisted
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cluster cup
cluster fig
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cluster flower
cluster fly
cluster leg
cluster pine
cluster point
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clypeo-
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coal heat
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coal miner
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coal picker
coal pipe
coal pit
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coal pocket
coal pot
coal producer
coal pulverizer
coal refiner
coal scoop
coal screen
coal screeener
coal scuttle
coal shaker
coal ship
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coal shoveler
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coal sorter
coal spreader
coal sprinkler
coal stacker
coal storage
coal stove
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coal tipple
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course-spun
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course-tongued
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course-wrought
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coarseness of intellect
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coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
coast live oak
coast nutmeg
coast patrol
coast pilot
coast rat
coast redwood
coast rhododendron
coast seal
coast station
coast trade
coast trillium
coast-fishing
coast-guard cutter
coast-to-coast hookup
costal navigation
costal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
costwise navigation
coat armor
coat armour
coat arms
coat card
coat flower
coat hanger
coat money
ccoat of arms
ccoat of mail
coat of paint
coat shirt
coat-armour
coat-card
coat-money
coat-of-mail shell
coat-of-plates construction
coat-tail
coated lens
coati-mondi
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coating paper
c coaxial cable
coaxial network
c coaxial propellers
c coaxial speaker
cob cactus
cob coal
cob loaf
cob meal
cob money
cob swan
cob wall
cob-iron
cob-nut
cob-swan
cobalt 60
cobalt bloom
cobalt blue
cobalt bomb
cobalt bronze
cobalt chloride
cobalt crust
cobalt glance
cobalt glass
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cobalt red
cobalt sulphate
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cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobalti-
cobaltiferous wad
cobalto-
cobaltous hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cobras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidoidal granuloma
cocculus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygeo-
cochil sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cocht zapotl
cochlear duct
cochleariform process
cochon de lait
cochylis moth
cock a snook
cock a snook at
cock ale
cock and pie
cock bead
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's-comb
cock's-foot
cock's-head
cock-a
cock-a-doodle
cock-a-doodle--dooed
cock-a-doodle--dooing
cock-a-doodle-doo
cock-a-doodle-doos
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
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cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and-pinchock-as-hoop
cock-a-whoop
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cock-fighting
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cock-laird
cock-loft
cock-master
cock-match
cock-nest
cock-of-the-rock
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cock-penny
cock-road
cock-shut
cock-shy
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cock-sure
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cock-throppled
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cockatoo fence
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cocked hat
cocker spaniel
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cockeye bob
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cockeyed bob
cockeyed drunk
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cocking cart
cockle button
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cockle stove
cockle strewer
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cockle-shell
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cockles of your heart
cocks-of-the-rock
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cocksfoot grass
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cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
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cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
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cockyoly bird
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coco palm
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cocoa-colored
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cocnut bud rot
cocnut butter
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cocnut crab
cocnut cream
cocnut ice
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coconut oil
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coconut tree
coconut walk
coconut water
coconut-palm rot
cod end
cod line
cod liver
cod net
cod oil
cod war
cod-bait
cod-fish
cod-liver meal
cod-liver oil
cod-piece
cod-smack
coda mark
coddle yourself
coddled eggs
coddy-moddy
code book
code duello
code flag
code of ethics
code of laws
code of morals
code of oral communication
code pennant
code state
code word
coded message
codeine cough syrup
codex rescriptus
codfish aristocracy
codfish balls
codfish cakes
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codling moth
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coeducational school
coefficient component
coefficient of acceleration
coffee ring
coffee roaster
coffee royale
coffee senna
coffee shell
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coffee spoon
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coffee strainer
coffee table
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coffee-and
coffee-blending
coffee-brown
coffee-cleaning
coffee-color
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coffee-imbibing
coffee-klatsch
coffee-making
coffee-planter
coffee-planting
coffee-polishing
coffee-roasting
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coffin bone
coffin carrier
coffin corner
coffin finisher
coffin handle
coffin joint
coffin maker
coffin nail
coffin plate
coin check
coin collector
coin counter
coin envelope
coin fancier
coin glass
coin gold
coin guard
coin holder
coin laundry
coin lock
coin machine
coin money
coin nickel
coin of the realm
coin planchet
coin pouch
coin ringer
coin sack
coin shell
coin silver
coin slot
coin sorter
coin stamper
coin telephone
coin tester
coin tray
coin weight
coin wrapper
coin-clipper
coin-clipping
coin-controlled
coin-counting
coin-made
coin-op
coin-operated
coin-operated laundry
coin-operated machine
coin-operating
coin-separating
coin-shaped
coin-weighing
coinage bronze
coinage of the brain
coinage ratio
coincidence counter
coined liberty
coining press
coining punch
coinsurance clause
coital exanthema
coitus interrupti
coitus interruptus
coitus reservatus
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abscess
cold as a welldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forged
cold-forging
cold-forged

cold-hammer
cold-hammered
cold-head
cold-hearted
cold-heartedly
cold-heartnedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-pack
cold-press
cold-producing
cold-rolled
cold-short

cold-storage

cold-swage
cold-sweat
cold-taking
cold-type

cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll' arco
coll-
colla tempestada
collagen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
collar button
collar buttoner
collar case
collar cell
collar cutter
collar day
collar disease
collar edger
collar fastener
collar finisher
collar fungus
collar gauge
collar girdle
collar iron
collar ironer
collar machinist
collar maker
collar making
collar nut
collar pad
collar point
collar polisher
 collar rot
collar shaper
collar starcher
collar stitcher
collar stud
collar tie
 collar tree
 collar work
collar-bone
collar-bound
collar-cutting
collar-shaping
collar-to-collar
 collar-wearing
collard greens
 collared dove
 collared lizard
 collared peccary
collateral circulation
collateral descendant
collateral evidence
collateral loan
collateral relative
collateral security
collateral trust bond
collateral warranty
collating mark
collect a duty on
collect a tax on
collect call
collect for your services
collect knowledge
collect learning
collect of the Communion
collect of the Mass
college of Laputa
college of advanced technology
college of architecture
college of arms
college of dramatic arts
college of education
college of engineering
college of general studies
college of liberal arts
college of music
college of education
college of pheasant
college pudding
college student
college try
college widow
college year
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier's purchase
colliery manager
collimating eyepiece
collimating lens
collimation axis
collimation error
collimation line
collimation plane
collision bulkhead
collision clause
collision course
collision density
collision diameter
collision emission
collision insurance
collision mat
collision-proof
collo-
collodio-
collodion cotton
collodion process
colloid carcinoma
colloid chemistry
colloid mill
color point
color print
color printing
color proof
color purity
color quality
color ratio
color reversal film
color salute
color scale
color scheme
color screen
color sense
color sentinel
color separation
color sergeant
color slab
color solid
color spectrum
color spreader
color striker
color system
color target
color television
color temperature
color tone
color top
color tree
color triangle
color up
color vision
color wash
color weakness
color wheel
color with emotion
color zone
color-ball pool
color-bearer
color-blind
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
colorado loco vetch
coloratura soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella crania
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
com-
coma berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
comb-brush
comb-building
comb-footed
comb-footed spider
comb-fringed grass
comb-grained
comb-out
comb-shaped
comb-toothed shark
combat area
combat boot
combat boots
combat car
combat ceiling
combat command
combat duty
combat engineer
combat fatigue
combat flight
combat group
combat high-explosive rocket
combat intelligence
combat jacket
combat neurosis
combat pilot
combat plane
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come busting in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man's estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-ye
come-along
come-at-ability
come-at-able
come-at-ability
come-back
come-between
come-by-chance
come-down
come-hither
come-hither look
come-hither
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
command guidance
command module
command money
command of idiom
command of language
command of money
command of words
command paper
command performance
command pilot
command post
command pulses
command respect
commander in chief
commanders in chief
commanding officer
comme ci comme ça
comme d'habitude
comme deux gouttes d'eau
comme il faut
commedia dell'arte
commedia dell'artes
commendas dell'arte
commedie dell'arte
commelina blue
commence firing
commencement exercises
commend to attention
commendation ninepence
comment allez-vous
comment ça va
comment upon
commerce destroyer
commerce raider
commerce raiding
commerce with
commercial affairs
commercial agency
commercial agent
commercial announcement
commercial arithmetic
commercial art
commercial artist
commercial attache
commercial aviation
commercial bank
commercial code
commercial college
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
commit a crime
commit a gaffe
commit a solemism
commit adultery
commit an assault upon
commit an atrocity
commit an outrage
commit burglary
commit carnage
commit genocide
commit hara-kiri
commit mass destruction
commit mass murder
commit murder
commit robbery
commit sacrilege
commit sin
commit suicide
commit to an institution
commit to memory
commit to prison
commit to writing
commit yourself
commit yourself to
commitment to memory
committee consideration
committee of correspondence
committee of one
committee of the whole
committee stage
commode step
commodity dollar
commodity exchange
commodity money
commodity paper
common alum
common ancestry
common assent
common belief
common bond
common brad
common carotid
common carotid artery
common carrier
common case
common chord
common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common person
common phrase
common pitcher plant
common pleas
common practice
common prayer
common property
common rafter
common reed
common rhythm
common room
common ruck
common run
common run of things
common salt
common saying
common school
common scold
common seal
common seaman
common sennit
common sense
common snipe
common soldier
common sort
common source
common speech
common stock
common sulfur
common talk
common tannin
common tern
common time
common topaz
common touch
common variety
common weal
common wheat
common year
common-law
common-law court
common-law estoppel
common-law jurisdiction
common-law lien
common-law marriage
common-law trust
common-law wife
common-room
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
community home
community hospital
community house
community nurse
community of interest
community of interests
community property
community school
community sentiment
community sing
community singing
community supervision
community theater
community trust
commutating pole
commutation ticket
commutative algebra
commutative contract
commutative law
commutator filling
commutator group
commutator motor
commutator pitch
commutator shell
commutator subgroup
compact car
compact of
companion bills amendment
companion cell
companion crop
companion cropping
companion flange
companion hatch
companion hatchway
companion ladder
companion piece
companion set
companion star
companionate marriage
company headquarters
company man
company officer
company reserve line
company secretary
company sergeant-major
company store
company town
company union
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
compass plane
compas plant
compas rafter
compas reading
compas roof
compas rose
compas saw
compas timber
compas weed
compas window
compas-headed
compensate for
compesated balance
compesated ionization chamber
compesated motor
compesating balance
compesating gear
compesating operation
compensation act
compensation balance
compensation bar
compensation insurance
compensation law
compensation neurosis
compensation pendulum
compensation water
compensatory damages
compensatory interest
compensatory reaction
compensatory spending
compete against
compete with
competitive market
compilation film
compiling routine
complain against
complain loudly
complain of
complemet deviation
complemet fixation
complemet fixation test
complemet-binding
complemet-fixing
complemetary angle
complemetary angles
complemetary cells
complemetary color
complemetary colour
complementary distribution
complementary wavelength
complete a purchase
complete answer
complete circuit
complete fertilizer
complete fracture
complete quadrilateral
complete works
completely normal space
completely regular space
completing the square
completion test
complex algebra
complex circularity
complex cone
complex conjugate
complex control system
complex fraction
complex idea
complex integer
complex machine
complex number
complex plane
complex salt
complex sentence
complex variable
complexity of meaning
complicate matters
complimentary close
complimentary closing
complimentary remark
complimentary ticket
compliments of the season
comply with
comport yourself
compos mentis
compose oneself
compose poetry
compose your differences
compose your features
compose yourself
composed matter
composed of
composed throughout
composing frame
composing room
composing rule
composing stick
composite arch
composite balance
composite function
composite number
composite photograph
composite reading
composite sailing
composite school
composite shot
composite text
composite-built
composition carver
composition cloth
composition face
composition factor
composition formula
composition metal
composition of differences
composition of forces
composition pedal
composition piston
composition roofing
composition series
compost heap
compound centrifugal force
compound engine
compound eye
compound flower
compound for
compound fraction
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
comprehensive school
compressed air
compressed petroleum gas
compressed score
compressed-air drill
compressibility drag
compression bib
compression coupling
compression cup
compression ignition
compression member
compression ratio
compression spring
compression stroke
compression tap
compression wave
compression-ignition
compression-ignition engine
compromise formation
compromise joint
compromise rail
compromise yourself
compte rendu
compte-rendu critique
comptes rendus
compulsion neurosis
compulsive character
compulsive gambler
compulsory arbitration
compulsory military service
compulsory purchase
compulsory referendum
compulsory servitude
computational linguistics
computer code
computer data
computer engineer
computer hardware
computer language
computer memory
computer part
computer parts
computer printout
canada program
canada programmer
canada proof
canada revolution
canada routine
canada software
canada technician
canada technologist
canada technology
canada typesetting
canada unit
canadaized typesetting
computing machine
computing scale
comrade in arms
comrade-in-arms
con affetto
con agilita
con agitazione
con amore
con anima
con artist
con brio
con dolore
con espressione
con fuoco
con game
con man
con moto
con over
con rod
con sordino
con spirito
con your part
con-
conario-
concatenation control
concatenation of events
concatenation system
concave lens
concave mirror
concavo-
concavo-concave
concavo-convex
concavo-convex lens
conceal your motive with
conceal yourself
conceded fact
conceit yourself
conceivably possible
conceive a dislike to
concentrate on
concentrate sprayer
concentrate the mind
concentrate the thoughts
concentrate upon
concentration camp
concentration cell
concentration ring
concentric cable
conceptual art
conceptual artist
conceptual crudity
conceptual realism
conceptual realist
conceptually crude
concern oneself
concern yourself with
concert artist
concert band
concert border
concert etude
concert flute
concert grand
concert grand piano
concert guitar
concert hall
concert music
concert overture
concert party
concert performance
concert pitch
concert season
concert tour
concerted action
concerti grossi
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'lgance
concrete art
concrete block
concrete identity
concrete layer
concrete mixer
concrete music
concrete noun
concrete number
concrete paint
concrete poetry
concrete universal
concurrent jurisdiction
concurrent resolution
concurring opinion
concussion bellows
concussion bomb
concussion fuse
concussion grenade
concussional concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
cone anchor
cone bearing
cone bit
cone brake
cone center
cone chuck
cone clutch
cone compass
cone coupling
cone delta
cone friction clutch
cone gamba
cone joint
cone key
cone lathe
cone mandrel
cone mill
cone number
cone of a complex
cone of silence
cone off
cone pepper
cone plate
cone pulley
cone shaver
cone shell
cone snail
cone speaker
cone tree
cone valve
cone vision
cone wheat
cone wheel
cone-billed
cone-headed
cone-in-cone
cone-nose
cone-shaped
conehead rivet
conehead toggle
coney leopard
coney mole
coney parsley
confabulate the breeze
confectioners' sugar
confectionery decorator
confederate memorial day
confederate rose
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
conference table
confession equality
confession of faith
confide in
confide to
confidence game
confidence interval
confidence limits
confidence man
confidence trick
confidential communication
confidential information
confirm in
confirmation class
confirmed bachelor
confirmed liar
conflict of interest
conflict of laws
conflict of sounds
conflict with
confluence of minds
confluent stream
conform map projection
conform representation
conform to
conform to fact
conform with
conformable to
conformal projection
conformation other-direction
conformity to fact or reality
confound it
confront each other
confront with
confrontation politics
confrontation therapy
confused flour beetle
confusion of sounds
confusion of tongues
confusion worse confounded
conga drum
congee house
congenital defect
congenital disease
congenital heart disease
congenital hypophosphatasia
congenital idiot
congenital immunity
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglobate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjugate axis
conjugate numbers
conjugate solution
conjugated protein
conjugation canal
conjugation cell
conjugato-
conjugato-palmate
conjugato-pinnate
conjunction-reduction
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
consenting adult
consequent stream
conservation of angular momentum
conservation of charge
conservation of energy
conservation of linear momentum
conservation of mass
conservation of mass and energy
conservation of matter
conservation of momentum
conservation of parity
conservative treatment
consider every angle
consider pro and con
consider the circumstances
consider the source
consign to a place
consign to hell
consign to oblivion
consign to the grave
consign to the scrap heap
consigned to oblivion
consignment marketing
consignment note
consist in
consist of
consistent with
consisting of
consolation game
consolation match
consolation prize
console table
consolidated annuities
consolidated fund
consolidated school
consolidated stock
consolidating company
consonant chord
consonant shift
consonant shifting
consonant system
consonantal alliteration
consort with
conspicuous by its absence
conspicuous consumption
conspicuous gallantry
conspicuous waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
constitute a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
constitutional referendum
constitutional rights
constitutional syphilis
constitutional therapy
constitutional validity
constrain yourself
constrict your views
construct form
construct state
construction bond
construction engineer
construction engineering
construction modifier
construction paper
constructional homonymy
constructive change
constructive imagination
constructive interference
consul general
consular agent
consular service
consulate general
consulates general
consuls general
consult with
consult with your pillow
consult your own wishes
consult your pillow about
consultation room
consultative assembly
consulting room
consume away
consume time
consumed by fire
consumed with curiosity
consumed with desire
consumer cooperative
consumer credit
consumer economy
consumer goods
consumer items
consumer power
consumer preference study
consumer price index
consumer research
consumer resistance
consumer sovereignty
consumer strike
consumer survey
consumer's strike
consumer-preference survey
consummate liar
consummate lie
consumption goods
consumption weed
cont-line
contact a debt
contact action
contact agent
contact dermatitis
contact flight
contact flying
contact infection
contact lens
contact maker
contact making
contact man
contact metamorphism
contact microphone
contact mine
contact paper
contact poison
contact potential
contact print
contact printing
contact process
contact therapy
contact with reality
contactor switch
contagious disease
contagious abortion
contagious eczema
contagious epithelium
contagious epithelioma
contagious magic
contain yourself
contained in
container board
container car
container ship
contango day
conte-crayon
contemplate in the imagination
contemplation of the past
contemplative life
contemporary literature
contempt of Congress
contend about
contend against
contend for
contend with
content analysis
content subject
content word
content yourself with
contents page
contest a seat
contest of fleetness
contest of speed
contested election
contextual definition
continent-wide
continental breakfast
continental climate
continental code
continental divide
continental drift
continental island
continental quilt
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating airscrews
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
control chart
control column
control desk
control electrode
control element
control engineer
control experiment
control feelings
convenience food
convenient to
convent cloth
convent school
convention hall
conventional phrase
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
conventual prior
convergence frequency
converging of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
convert to
convert to use
converted steel
converter reactor
convertible bond
convertible coupe
convertible debenture
convertible preferred stock
convertible securities
convertible sedan
convertible top
convex hull
convex lens
convex mirror
convex point set
convex polygon
convex-concave
convexo-
convexo-concave
convexo-convex
convexo-plane
convey an impression of
conveyor belt
conveyor chain
convict goods
convict yourself
convince to the contrary
convince yourself
convolvulus moth
convulsion root
convulsive therapy
cony-catch
coo-coo
cooch dance
cooch show
coochie show
coochin york
cooee bird
cook accounts
cook off
cook out
cook stove
cook up
cook wrasse
cook your goose
cook-general
cook-out
cooked-up
cookery book
cookery stove
cookie cutter
cookie press
cooking-range
cooks-general
cooky cutter
cool acceptance
cool as a cucumber
cool bag
cool breeze
cool color
cool down
cool head
cool it
cool jazz
cool judgment
cool million
cool off
cool off the economy
cool out
cool the economy
cool your heels
cool-headed
cool-headedly
cool-headedness
cooling breeze
cooling degree-day
cooling down
cooling of the economy
cooling off
cooling off of the economy
cooling system
cooling-card
cooling-off
cooling-off period
coom-ceiled
coon bear
coon cat
coon dog
coon's age
coonskin cap
coop in
coop up
cooped-in
cooper's-wood
cooperative apartment
cooperative apartment house
cooperative bank
cooperative credit union
cooperative farm
cooperative society
cooperative store
coopered joint
coordinate bond
coordinate clause
coordinate geometry
copper pyrites
copper red
copper refiner
copper refinery
copper smelter
copper spot
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
coppery-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
copple-crown
copple-crowned
copple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
coq au vin
coq de bruyere
coquet with
coquet with the idea
coquette bob
coquetish glances
coquilla nut
coquille lens
coquilles Saint-Jacques
coquimbo owl
coquito palm
cor adiposum
cor anglaís
cor arteriosum
cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotrilocular biatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biatriatum
cor triloculare biventriculare
cor villosum
cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secreting
coral-snake
coral-tree
coral-wood
coram judice
coram nobis
coram non judice
coram populo
corbel arch
corbel out
corbel step
corbel table
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shocker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crake
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corn-cob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corneo-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coronae radiatae
coronal roots
coronal suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coronar's inquest
coronar's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal's guard
corporate arms
corporate body
corporate bond
corporate headquarters
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'arme
corps d'elite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpsse candle
corpsse gate
corpsse reviver
corpsse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus chri
corpus delicti
corpus juris

corpus luteum

corpus luteum hormone

corpus striatum

corpus vile

corpuscular theory

correct English

correct copy

correct deportment

correct ear

correct in your behavior

correct in your manners

correcting plate

correcting signals

correction line

correction of error

corrective action

corrector plate

correlation coefficient

correlation ratio

correlative conjunction

correspond to

correspond with

correspondence column

correspondence course

correspondence principle

correspondence school

correspondence theory

corridor of time

corridors of time

corroboratory evidence

corrosion borders

corrosive mercury chloride

corrosive sublimate

corrugated iron

corrugated paper

corruption of blood

corruption of speech

corset cover

corset designer

corsetier corsetier

cortex parenchyma

cortical epilepsy

cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cost center
cost insurance and freight
cost keeper
cost keeping
cost ledger
cost little
cost money
cost much
cost next to nothing
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton baller
cotton batting
cotton belt
cotton bill
cotton boll
cotton bollworm
cotton broker
cotton bush
cotton buyer
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner

cotton grass

cotton grower

cotton gum

cotton harvester

cotton jenny

cotton lint

cotton linters

cotton lord

cotton mill

cotton mixer

cotton moth

cotton mouse

cotton mouth

cotton mouths

cotton mule

cotton netting

cotton oil

cotton on

cotton opener

cotton packer

cotton picker

cotton plant

cotton plantation

cotton planter

cotton plunger

cotton plush

cotton pongee

cotton powder

cotton preparer

cotton press

cotton print

cotton printer

cotton raiser

cotton rat

cotton rock

cotton root rot

cotton rose

cotton rush

cotton rust

cotton sampler

cotton seed

cotton shipper

cotton sled

cotton sorter

cotton speeder

cotton spinner

cotton spooler
cotton stainer
cotton stripper
cotton sugar
cotton sweep
cotton tapestry
cotton teal
cotton teaser
cotton thistle
cotton thread
cotton tie
cotton to
cotton tree
cotton twist
cotton twister
cotton wadding
cotton warehouseman
cotton warp
cotton waste
cotton weigher
cotton wick
cotton wicking
cotton wilt
cotton winder
cotton wool
cotton works
cotton worm
cotton yarn
cotton-backed
cotton-baling
cotton-bleaching
cotton-clad
cotton-covered
cotton-dyeing
cotton-ginning
cotton-growing
cotton-knitting
cotton-picking
cotton-planting
cotton-printing
cotton-producing
cotton-root bark
cotton-sampling
cotton-sick
cotton-spinning
cotton-weaving
cotton-wicked
cottonseed cake
cottonseed feed
cottonseed flour
cottonseed meal
cottonseed oil
cottonseed tree
cottontail rabbit
cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough sirup
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counter tube
counter wall
counter word
counter-
counter-acquittance
counter-agency
counter-approach
counter-arch
counter-attraction
counter-barry
counter-battery
counter-beam
counter-bill
counter-bore
counter-boulle
counter-brace
counter-carte
counter-cast
counter-caster
counter-chevrons
counter-claim
counter-clockwise
counter-coloured
counter-company
counter-couchant
counter-culture
counter-current
counter-deed
counter-disengage
counter-drain
counter-draw
counter-earth
counter-embattled
counter-embowed
counter-ermine
counter-evidence
counter-extension
counter-faced
counter-faller
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-guard
counter-hem
counter-indication
counter-influence
coupon rate
coups d'essai
coups de main
coups de plume
coups de poing
cour d'honneur
courage fou
courageous act
courbaril copal
coureur de bois
coureurs de bois
courge green
cours d'honneur
course ahead
course light
course of action
course of study
course of things
course of time
course protractor
coursing joint
court Christian
court bond
court bouillon
court calendar
court card
court cards
court christian
court circular
court cupboard
court dance
court danger
court day
court destruction
court dress
court fool
court game
court gray
court guide
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepoundre
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mantle
court-martial
court-martials
court-noue
court-plaster
court-tialed
court-tialing
court-tialed
court-tialling
court-yard
cow oak
cow parsley
cow parsnip
cow pats
cow pillow
cow pilot
cow plant
cow poison
cow pony
cow rattle
cow shark
cow sorrel
cow testing
cow thistle
cow town
cow tree
cow vetch
cow’s tail
cow-bane
cow-boy
cow-cutting horse
cow-eyed
cow-fat
cow-fish
cow-goddess
cow-headed
cow-hide
cow-hitch
cow-hocked
cow-itch
cow-lice
cow-mumble
cow-nosed
cow-pox
cow-stealing
cow-tongue
cowboy boot
cowboy boots
cowboy hat
cowboy pool
cowboy saddle
cowboys and Indians
cowhage cherry
cowl lamp
cowl neckline
cowl-shaped
cowlled night
cowpea weevil
cowpea wilt
cowper's gland
cowrie pine
cowry bird
cowslip wine
coxo-femoral
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
cozy chat
cozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
crab-faced
crab-fish
crab-grass
crab-harrow
crab-plover
crab-shed
crab-sidle
crabbed age
crabbed hand
crabbing machine
crab eater seal
crack a book
crack a crib
crack a joke
crack a safe
crack a smile
crack down
crack down on
crack of dawn
crack of doom
crack off
crack on
crack on sail
crack open
crack shot
crack the whip
crack up
crack willow
crack wise
crack your brains
crack your invention
crack-
crack-loo
crack-off
crack-the-whip
crack-up
crack-willow
cracked on
cracked voice
cracked-wheat bread
cracker bonbon
cracker jack
cracker mill
cracker-barrel
cracker-off
cracker-on
cracker-open
crackers-on
cracking still
cracklin' bread
crackling bread
crackling fire
cradle bar
cradle book
cradle cannon
cradle holding
cradle maker
cradle orchid
cradle roll
cradle roof
cradle scythe
cradle snatcher
cradle snatching
cradle vault
cradle-shaped
cradle-to-grave security
craft guild
craft paper
craft union
craft unionist
crafty rascal
crag martin
crag swallow
crag-and-tail
crag-bound
crag-built
crag-carven
crag-covered
crag-fast
crake-needles
cram down your throat
cram in
cram the mind
cram the mind with
cram up
cram with facts
cram-full
crambo clink
crambo jingle
crammed full
cramp bark
cramp bone
cramp iron
cramp ring
cramp your style
cramp-iron
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane's-bill
crane-fly
cranging hook
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
crank wheel
crank-driven
crank-sided
crap around
crap game
crap grass
crap out
crap shooter
crap shooting
crap table
crapaud stone
crapaudine door
crape fern
crape jasmine
crape myrtle
crape needle
crape ring
crape-fish
crappit head
crappit-head

Crash barrier
Crash boat
Crash cymbal
Crash dive
Crash helmet
Crash in
Crash into
Crash land
Crash landing
Crash of thunder

Crash out
Crash pad
Crash program
Crash the gates
Crash wagon
Crash wall
Crash-dive
Crash-dived

Crash-diving
Crash-dove
Crash-land
Crash-landing
Crashing bore
Crass ignorance
cratch cradle
Crate maker
Crater basin
Crater-shaped
Crave after
craw-craw
crawfish out
Crawl after
Crawl box
Crawl in
Crawl into your shell
Crawl out of
Crawl space
crawl with
crawl-a-bottom
crawl-up
crawler tractor
crawling peg
crayon board
crayon engraving
crazed-headed
crazier than a bedbug
crazier than a coot
crazier than a loon
crazy about
crazy bone
crazy fancy
crazy for
crazy house
crazy idea
crazy like a fox
crazy over
crazy pavement
crazy paving
crazy quilt
crazy to
crazy top
crazy-drunk
crazy-headed
crazy-looking
crazy-mad
crazy-pate
crazy-paving
crazy-work
cream beige
cream buff
cream bush
cream buyer
cream caustic
cream cheese
cream cooler
cream cracker
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tester
cream tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crease-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again
creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crebi-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creedal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
creme Yvette
creme d'amande
creme de cacao
creme de cassis
creme de la creme
creme de menthe
creme de moka
creme de noyau
cremorne bolt
crate-leaved
crate-toothed
crateo-
cratelated molding
crical dialect
crical language
crical-fish
crical-fishes
creollized language
creso bush
creso carbonate
creso oil
cre Suzette
cre de Chine
cre de chine
cre hair
cre lisse
cre marocain
cre meteor
cre myrtle
cre paper
cre rubber
cre suzette
cre wool
cre-backed
cre-paper
crepuscular light
crepuscular ray
crescendo pedal
crescent moon
crescent operation
crescent roll
crescent spot
crescent truss
crescent-formed
crescent-lit
crescent-pointed
crescent-shaped
cres til
cres iodide
cres red
cress family
cress green
cress rocket
crest cloud
crest coronet
crest factor
crest rail
crest table
crest tile
crest voltmeter
crest-fallen
crested auklet
crested dog’s-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
crewel yarn
crewel-work
cri de coeur
cri de guerre
cri du cour
crib biting
crib death
crib strap
crib-bit
crib-bite
crib-biter
crib-biting
crib-bitten
cribbage board
crick-crack
cricket ball
cricket bat
cricket bird
cricket chair
cricket frog
cricket ground
cricket table
cricket teal
cricket-bat willow
crico-
cried up
crim con
crime against humanity
crime against nature
crime of passion
crime passionel
crime sheet
crime wave
criminal act
criminal anthropology
criminal assault
criminal cohabitation
criminal congress
criminal contempt
criminal conversation
criminal court
criminal investigation
criminal jurisdiction
criminal law
criminal lawyer
criminal psychology
criminal syndicalism
criminal syndicalist
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
crinc-
cringe to
cringle-crangle
crini-
crinkle leaf
crinkle-crankle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
crio-
cripple rafter
cripple stopper
crippling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
crooked dice
crooked politician
crooked-backed
crooked-billed
crooked-branched
crooked-clawed
crooked-eyed
crooked-foot
crooked-legged
crooked-limbed
crooked-lined
crooked-lipped
crooked-nosed
crooked-pated
crooked-shouldered
crooked-stemmed
crooked-toothed
crooked-winged
crooked-wood
crookes tube
croon song
crop drier
crop duster
crop grass
crop herbs
crop hide
crop index
crop of hair
crop out
crop pasture
crop rotation
crop seed
crop shear
crop up
crop-bound
crop-dust
crop-duster
crop-dusting
crop-ear
crop-eared
crop-farming
crop-full
crop-haired
crop-headed
crop-nosed
crop-producing
crop-shaped
crop-sick
crop-tailed
croquet ball
croquet ground
croquet lawn
croquignole wave
crosier back
cross action
cross agglutination
cross aisle
cross ancre
cross axle
cross bearings
cross bedding
cross birth
cross bit
cross bitt
cross bond
cross botonee
cross bourdonne
cross brace
cross bracing
cross break
cross bridging
cross buck
cross bun
cross complaint
cross correspondence
cross counter
cross cylinder
cross drawing
cross education
cross estoile
cross facet
cross fault
cross field
cross file
cross fire
cross fitche
cross fleury
cross flute
cross flux
cross forked
cross formee
cross fourchee
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pommee
cross potent
cross press
cross product
cross ratio
cross recercelee
cross reference
cross relation
cross remainder
cross rhythm
cross sea
cross seat
cross section
cross sighting
cross signal
cross slide
cross spider
cross springer
cross strap
cross street
cross stroke
cross swords
cross swords with
cross tag
cross talk
cross the Rubicon
cross the Stygian ferry
cross the path of
cross the threshold
cross turret
cross up
cross vault
cross vaulting
cross vein
cross vine
cross whitefish
cross wind
cross wire
cross wires
cross your heart
cross your heart and hope to die
cross your mind
cross your palm
cross your palm with
cross your path
cross-
cross-adoring
cross-aisle
cross-appearance
cross-armed
cross-banded
cross-bandings
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-benched
cross-benchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-bones
cross-bow
cross-bred
cross-breed
cross-bridge
cross-brush
cross-bun
cross-buttock
cross-buttocker
cross-carve
cross-channel
cross-check
cross-church
cross-claim
cross-cloth
cross-compound
cross-connect
cross-country
cross-country flying
cross-country mill
cross-country race
cross-course
cross-cousin
cross-cousin marriage
cross-crosset
cross-crossets
cross-curve
cross-cut
cross-datable
cross-date
cross-dating
cross-days
cross-disciplinary
cross-disciplinary knowledge
cross-division
cross-drain
cross-dye
cross-dyeing
cross-elbowed
cross-examination
cross-examine
cross-examined
cross-examiner
cross-examining
cross-eye
cross-eyed
cross-eyedness
cross-eyes
cross-face
cross-fade
cross-faded
cross-fading
cross-feed
cross-ferred
cross-ferring
cross-fertile
cross-fertilizable
cross-fertilization
cross-fertilize
cross-fertilized
cross-fertilizing
cross-fiber
cross-file
cross-filed
cross-filing
cross-finger
cross-fingered
cross-fire
cross-fire treatment
cross-firing
cross-fish
cross-fissured
cross-fixed
cross-flower
cross-folded
cross-fox
cross-fur
cross-gagged
cross-garnet
cross-gartered
cross-grained
cross-grainedly
cross-grainedness
cross-handed
cross-handled
cross-hatch
cross-hatcher
cross-hatching
cross-head
cross-headed
cross-hilted
cross-immunity
cross-immunization
cross-index
cross-interrogate
cross-interrogation
cross-interrogator
cross-interrogatory
cross-invite
cross-jack
cross-jack yard
cross-joined
cross-jostle
cross-laced
cross-laminated
cross-land
cross-lap
cross-lap joint
cross-latticed
cross-leaved
cross-legged
cross-leggedly
cross-leggedness
cross-level
cross-license
cross-licensed
cross-licensing
cross-lift
cross-light
cross-link
cross-locking
cross-lot bracing
cross-lot strut
cross-lots
cross-magnetizing field
cross-marked
cross-mate
cross-mated
cross-mating
cross-multiplication
cross-out
cross-out test
cross-over
cross-patch
cross-pawl
cross-peal
cross-piece
cross-piled
cross-plough
cross-plow
cross-ply
cross-point
cross-pollen
cross-pollenize
cross-pollinate
cross-pollinated
cross-pollinating
cross-pollination
cross-pollinize
cross-post
cross-purpose
cross-purposes
cross-question
cross-questionable
cross-questioner
cross-questioning
cross-ratio
cross-ratio group
cross-reaction
cross-reading
cross-refer
cross-reference
cross-remainder
cross-road
cross-row
cross-ruff
cross-sail
cross-section
cross-section paper
cross-sectional
cross-shaped
cross-shave
cross-slide
cross-spale
cross-spall
cross-springer
cross-staff
cross-staffs
cross-star
cross-staves
cross-sterile
cross-sterility
cross-stitch
cross-stitch canvas
cross-stitching
cross-stone
cross-stratification
cross-stratified
cross-striated
cross-string
cross-stringed
cross-stringing
cross-striped
cross-strung
cross-sue
cross-surge
cross-tail
cross-tine
cross-town
cross-tree
cross-validation
cross-vault
cross-vaulted
cross-vaulting
cross-vein
cross-veined
cross-ventilate
cross-ventilation
cross-vine
cross-voting
cross-way
cross-wind
cross-wind force
cross-worder
cross-wrapped
crossbar micrometer
crossbar shot
crossbar switching
crossbolt lock
crosscut chisel
crosscut file
crosscut method
crosscut saw
crosscut-saw file
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing sweeper
crow's-feet
crow's-foot
crow's-nest
crow's-nest model
crow-bar
crow-bill
crow-flower
crow-garlic
crow-leek
crow-pheasant
crow-quill
crow-silk
crow-soap
crow-step
crow-stone
crow-toe
crow-tread
crow-victuals
crowberry family
crowd grass
crowd in
crowd of sail
crowd on sail
crowd out
crowd puller
crowd sail
crowd your luck
crowd-pleasing argument
crowding engine
crowfoot family
crowfoot grama
crowfoot grass
crowfoot violet
crown aloes
crown and anchor
crown animalcule
crown antler
crown bar
crown block
crown brace
crown cam
crown canker
crown canopy
crown cap
crown class
crown colony
crown cork
crown court
crown cutter
crown daisy
crown debt
crown density
crown escapement
crown filler
crown fire
crown gall
crown gate
crown gear
crown glass
crown gold
crown graft
crown grafting
crown green
crown gum
crown head
crown imperial
crown jewels
crown knot
crown land
crown law
crown lawyer
crown leather
crown lens
crown living
crown molding
crown monkey
crown octavo
crown of thorns
crown office
crown palm
crown paper
crown piece
crown pigeon
crown plate
crown post
crown prince
crown princess
crown prosecutor
crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crudeness of intellect
crudity of intellect
cruel and unusual punishment
cruel disappointment
cruel-hearted
cruet stand
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crushermanal sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crust-hunt
crust-hunter
crust-hunting
crutch paralysis
crutch stake
crutch-cross
crutch-stick
crux ansata
crux capitata
crux commisa
crux decussata
crux gammata
crux immissa
crux ordinaria
cry aloud
cry at the top of your voice
cry back
cry back to
cry craven
cry down
cry for
cry for joy
cry for quarter
cry for the moon
cry havoc
cry of wolf
cry off
cry on
cry out
cry out against
cry out for
cry out on
cry out upon
cry over spilled
cry over spilled milk
cry pax
cry quits
cry shame upon
cry sour grapes
cry stinking fish
cry to
cry up
cry upon
cry wolf
cry your eyes
cry your eyes out
cry yourself blind
cry-
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryo-lite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallo-
crystallographic axis
cteno-
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubeb oil
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubital furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucking-stool
cuckold dock
cuckold's knot
cuckold's neck
cuckoo bee
cuckoo clock
cuckoo clover
cuckoo dove
cuckoo falcon
cuckoo fly
cuckoo froth
cuckoo gillyflower
cuckoo grass
cuckoo hawk
cuckoo lamb
cuckoo orchis
cuckoo owl
cuckoo ray
cuckoo shoe
cuckoo shrike
cuckoo sorrel
cuckoo spit
cuckoo wasp
cuckoo wrasse
cuckoo's meat
cuckoo-babies
cuckoo-bread
cuckoo-bud
cuckoo-button
cuckoo-flower
cuckoo-fly
cuckoo-fool
cuckoo-meat
cuckoo-pint
cuckoo-pintle
cuckoo-shrike
cuckoo-spit
cuckoo-spittle
cucumber beetle
cucumber family
cucumber fish
cucumber flea beetle
cucumber fly
cucumber green
cucumber melon
cucumber mildew
cucumber mosaic
cucumber root
cucumber scab
cucumber tree
cucurbit mosaic
cucurbit wilt
cud-chewing
cuddle up
cuddy heel
cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multis aliis
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cup turning
cup valve
cup washer
cup-and-saucer vine
cup-bearer
cup-headed
cup-mark
cup-marked
cup-moss
cup-shake
cup-shaped
cup-shot
cup-tied
cup-tossing
cupboard love
cupboard lover
cupid cake
cupid's bow
cupid's-bow
cupola builder
cupola charger
cupola feeder
cupola fettler
cupola furnace
cupola liner
cupola potman
cupola rammer
cupola smelter
cupola tapper
cupola tenter
cupola-capped
cupola-roofed
cupping glass
cuprammonium rayon
cuprea bark
cupreo-
cupric hydroxide
cupric sulfate
cupro-
cuproso-
cuprous cyanide
curate's egg
curative measures
curb ball
curb bit
curb box
curb broker
curb chain
curb exchange
curb key
curb market
curb pin
curb roof
curb sender
curb service
curb string
curb yourself
curb-plate
curb-roof
curb-sending
curb-stone
curbing trowel
curcas oil
curcuma paper
curcuma starch
curd cheese
curd soap
curdle the
curdle the blood
cure of souls
cure yourself of
cure-all
curie point
curious as a cat
curious mind
curious person
curl cloud
curl up
curl upwards
curl your lip
curl your lip at
curl-flowered
curled mallow
curled-leaved
curlew bug
curlew jack
curlew sandpiper
curie-wurlie
curling die
curling dies
curling iron
curling irons
curling machine
curling paper
curling pins
curling press
curling punch
curling stone
curling tongs
curly clematis
curly grass
curly palm
curly top
curly-coated
curly-coated retriever
curly-haired
curly-headed
curly-locked
curly-pate
curly-pated
curly-polled
curly-toed
currant aphid
currant borer
currant bush
currant clearwing
currant fruit fly
currant leaf spot
currant moth
currant red
currant rust
currant sawfly
currant spanworm
currant stem girdler
currant tomato
currant tree
currant wine
currant worm
currant-leaf
currency bond
currency doctrine
currency metals
currency note
currency principle
current account
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
currente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtail expenses
curtail step
curtail-step
curtain angle
curtain aurora
curtain board
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
curtal-ax
curtesy initiate
curtle ax
curile chair
curvature invariant
curvature of field
curvature tensor
curve ball
curve fitting
curve of buoyancy
curve of displacement
curve of flotation
curve of loads
curve of resistance
curve of weights
curve-ball
curve-billed
curve-drawing meter
curve-fruited
curve-veined
curved-fruited
curved-horned
curved-veined
curvi-
curvilinear coordinate system
cusco bark
cusco china
cusco-bark
cuscus oil
cush-cush
cushew-bird
cushing's disease
cushion aloe
cushion block
cushion capital
cushion carom
cushion cut
cushion dance
cushion felt
cushion filler
cushion fillings
cushion head
cushion iris
cushion maker
cushion pink
cushion plant
cushion rafter
cushion scale
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
customs union
customs-exempt
customs-house
custos morum
custos rotulorum
cut a caper
cut a corner
cut a crab
cut a dash
cut a dido
cut a feather
cut a figure
cut a figure in society
cut a lobster
cut a melon
cut a rug
cut a swath
cut across
cut adrift
cut along
cut and dried
cut and run
cut and thrust
cut and try
cut apart
cut at
cut away
cut back
cut both ways
cut capers
cut corners
cut crosswise
cut dead
cut diagonally
cut direct
cut down
cut down expenses
cut down on
cut down to size
cut drop
cut fine
cut glass
cut hunter
cut ice
cut in
cut in two
cut into
cut it
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cutoff valve
cutout switch
cutter arbor
cutter bar
cutter block
cutter brig
cutter gig
cuttor rig
cutter sloop
cutter yacht
cutter-built
cutter-down
cutter-gig
cutter-off
cutter-out
cutter-rigged
cutter-up
cutthroat competition
cutthroat contract
cutthroat grass
cutthroat razor
cutthroat trout
cutting almond
cutting angle
cutting blowpipe
cutting board
cutting compound
cutting die
cutting drift
cutting edge
cutting fluid
cutting grass
cutting horse
cutting in two
cutting lubricant
cutting machine
cutting of supply lines
cutting oil
cutting out
cutting pliers
cutting press
cutting punch
cutting remark
cutting rule
cutting sand
cutting shoe
cutting stage
cutting the pie
cutting torch
cutting words
cutting your losses
cutting-off tool
cuttle-bone
cuttle-fish
cutty sark
cutty stool
cutty-stool
cutwater bow
cutwork lace
cy pres
cy an blue
cyan-
cyan-blue
cyanam ide process
cyanc i

cyanic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyano
cyanogen bromide
cyanogen chloride
cyanuric acid
cybernated factory
cybernetic control
cybernetic technologist
cycad fern
cycas family
cycl-
cyclamen aldehyde
cyclamen mite
cycle billing
cycle form
cycle of erosion
cycle of indiction
cyclic AMP
cyclic GMP
cyclic group
cyclic neutropenia
cyclic pitch lever
cyclic shift
cyclical stock
cyclical unemployment
cyclo-
cyclo-cross
cycloid personality
cycloidal gear
cycloidal propulsion
cyclone cellar
cyclone center
cyclone collector
cyclone furnace
cyclone juice
cyclone separator
cyclone-proof
cyclopean concrete
cyclothymic personality
cylinder block
cylinder bore
cylinder desk
cylinder escapement
cylinder front
cylinder gate
cylinder glass
cylinder grinder
cylinder head
cylinder machine
cylinder metal
cylinder mill
cylinder oil
cylinder planer
cylinder press
cylinder pressman
cylinder reamer
cylinder saw
cylinder scale
cylinder seal
cylinder sinker
cylinder slasher
cylinder snake
cylinder splitter
cylinder-bored
cylinder-boring
cylinder-dried
cylinder-grinding
cylinder-shaped
cylindric-campanulate
cylindric-fusiform
cylindric-oblong
cylindric-ovoid
dBV
dBW
dBa
dBm
dBnm/m
dBrn
da Vinci
da capo
dab hand
daber locks
dactyl-
dactylic hexameter
dactylio-
dactylo-
dad-blamed
dad-blasted
dad-burned
daddy longlegs
daddy-long-legs
daddy-longlegs
daddynut tree
dado head
dado in
dado plane
dado rail
daer-stock
daffodil garlic
daffodil lily
daffodil yellow
daft days
dag-lock
dag-tailed
dagger board
dagger cocklebur
dagger fern
dagger knee
dagger money
dagger moth
dagger plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
daghesh forte
daghesh lene
dahl sauce
dahtia carmine
dahtia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
dai-sho
dai-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breader
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy breed
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
dairy product
dairy products
dairy room
dairy salt
dairy school
dairy society
dairy truck
dairy wagon
dairy-cooling
dairy-farming
dairy-fed
dairy-made
daisy bush
daisy chain
daisy cutter
daisy fleabane
daisy ham
daisy tree
daisy-blossomed
daisy-clipping
daisy-cutter
daisy-cutting
daisy-dappled
daisy-dimpled
daisy-painted
daisy-spangled
dak boat
dak bungalow
daker hen
daker-hen
dal segno
dalai lama
dale end
dale head
dale land
dale lander
dale-backed
dall sheep
dallis grass
dally away
dam up
dam-brod
damage feasant
damage your good name
damage-feasant
damascus steel
damask carpet
damask rose
damask steel
damask stitch
dame school
dame's rocket
dame's violet
dame's-violet
dame-school
dammar pine
damn it
damn with faint praise
damnant quod non intelligunt
damned if I know
damned little difference
damned spirits
damned, the
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes'-blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dangling modifier
dangling participle
danish pastry
danke schon
danse du ventre
danse macabre
danses du ventre
danseur noble
danseurs nobles
Daoine sithe
dap joint
dap-dap
daphne pink
daphne red
dapple-bay
dapple-gray
dapple-grey
dappled-gray
darby and joan
dare not
dare to
dare-base
dare-devil
daring imagination
dariole mould
dark Cornish
dark adaptation
dark age
dark ages
dark and gloomy
dark as a wolf’s mouth
dark as night
dark as pitch
dark beer
dark bread
dark chocolate
dark cloud
dark clouds
dark comedy
dark corner
dark depths
dark glasses
dark horse
dark lantern
dark lightning
dark meat
dark mineral
dark nebula
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prisoned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
dam ar durn
darning ball
darning cotton
darning egg
darning gourd
darning needle
darning silk
darning stitch
darning work
darning worsted
daroo tree
darrein presentment
darrein resort
dart ahead
dart grass
dart gun
dart snake
dart thrower
dart to and fro
darting pain
dartwaza band
das Ewig-Weibliche
dash ahead
dash at
dash down
dash for
dash into
dash lamp
dash light
dash of the pen
dash off
dash on
dash the cup from your lips
dash to your hopes
dash your brains out
dash your hope
dash-board
dashed hope
dashed hopes
dasher block
data analyzer
data bank
data capture
data processing
data processor
data reduction
data retrieval
data set
data storage
data system
data transmission
data-gathering
data-handling system
data-input system
data-interpreting system
data-reduction system
date at
date bar
date brandy
date coffee
date fever
date fig
date from
date grove
date line
date mussel
date of record
date palm
date plum
date shell
date slip
date stamp
date sugar
date tree
date wine
date-bearing
date-stamp
date-stamping
dating nail
dative bond
datum line
datum plane
datum point
daughter element
daughter of Eve
daughter of joy
daughter of the dawn
daughter-in-law
daughters-in-law
davenport table
davy jones
davy jones's locker
davy lamp
dawn chorus
dawn dew
dawn goddess
dawn on
dawn patrol
dawn redwood
dawn upon one
dawn-illumined
dawn-tinted
day after day
day and night
day bed
day bell
day blindness
day boy
day breeze
day by day
day camp
day clock
day clothes
day coach
day degree
day drift
day fireman
day fishing
day gang
day gate
day glow
day god
day gown
day guest
day hand
day hater
day haul
day hour
day house
day in
day in and day out
day in court
day in day out
day jasmine
day journeying
day labor
day laborer
day labour
day letter
day lily
day loan
day man
day name
day nettle
day neutral
day nurse
day nursery
day of atonement
day of doom
day of festivities
day of reckoning
day of rest
day off
day out
day owl
day rate
day reflection
day release
day return
day room
day rule
day scholar
day school
day servant
day shape
day shift
day sight
day sleeper
day slumber
day tank
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
day's-work
day-and-night
day-appearing
day-bed
day-blindness
day-bright
day-by-day
day-care center
day-clean
day-clear
day-dawn
day-day
day-detesting
day-devouring
day-dispensing
day-distracting
day-dream
day-eyed
day-fever
day-flower
day-fly
day-flying
day-hating
day-hired
day-lasting
day-lily
day-lived
day-loving
day-mare
day-net
day-neutral
day-peep
day-rawe
day-rule
day-shining
day-sight
day-spring
day-star
day-tale
day-time
day-to-day
day-to-day loan
day-to-day money
day-tripper
day-wearied
day-woman
day-writ
daylight blue
daylight factor
daylight glass
daylight lamp
daylight projection
daylight robbery
daylight saving
daylight saving time
daylight vision
daylight-saving time
days beyond recall
days gone by
days of grace
days of old
days of yore
daytime serial
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gaullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonté
de die in diem
de facto
de fide
de fond en comble
de gaulism
de gustibus non est disputandum
de haut en bas
de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de propio motu
de rerum natura
de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
de-Stalinize
de-Stalinized
de-Stalinizing
de-aerate
de-aerate
de-afforest
de-articulate
de-articulation
de-christianize
de-educate
de-electrify
de-electrization
de-electrize
de-emanate
de-emanation
de-emphases
de-emphasis
de-emphasize
de-emphasized
de-emphasizing
de-emulsibility
de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de-ethicization
de-ethicize
de-excite
de-excited
de-exciting
de-icer
dea-nettle
deacon seat
dead above the ears
dead against
dead ahead
dead and buried
dead and done for
dead and gone
dead as a doornail
dead as a herring
dead as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand of the past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
deaf afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanch
dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
dead-drunk
dead-drunkenness
dead-end
dead-end street
dead-eye
dead-face
dead-front
dead-frozen
dead-grown
dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
dead-rise line
dead-roast
dead-seeming
dead-set
dead-sick
dead-smooth
dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadbeat escapement
deaden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin
deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
dead and dumb
dead as a door
dead as a doorknob
dead as a doornail
dead as a post
dead as a stone
dead as an adder
dead ears
dead to
dead to reason
dead-and-dumb
dead-and-dumb alphabet
dead-and-dumb person
dead-dumb
dead-dumbness
dead-eared
dead-minded
dead-mute
deaf-muteness
deaf-mutism
deal a blow
deal a blow at
deal a check to
deal a crushing defeat
deal a deathblow
deal a deathblow to
deal a knockout blow to
deal a smashing defeat
deal board
deal by
deal carrier
deal destruction
deal hard measure to
deal hardly with
deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
dearest wish
dearly beloved
dearly love
dearly love to
dearth of ideas
death adder
death agonies
death agony
death alder
death angel
death angle
death bell
death benefit
death bill
death blast
death bolt
death bone
death by your own hand
death camas
death camass
death candle
death cap
death cell
death certificate
death chair
death chamber
death chime
death cloth
death cord
death cry
death cup
death damp
death dance
death defiance
death demon
death dew
death dirge
death drink
death drum
death duty
dead death
death examiner
dead death
death feint
dead death
death feud
dead death
death fire
dead death
death flame
dead death
death grant
dead death
death grapple
dead death
death grip
dead death
death groan
dead death
death herb
dead death
death hour
dead death
death house
dead death
death hymn
dead death
death instinct
dead death
death knell
dead death
death light
dead death
death list
dead death
death mask
dead death
death note
dead death
death notice
dead death
death of the heart
dead death
death of the soul
dead death
death pang
dead death
death peal
dead death
death penalty
dead death
death penny
dead death
death point
dead death
death prayer
dead death
death rate
dead death
death rattle
dead death
death ray
dead death
death roll
dead death
death rope
dead death
death row
dead death
death ruckle
dead death
death seat
dead death
death sentence
dead death
death shriek
dead death
death sleep
dead death
death song
dead death
death stab
dead death
death stroke
dead death
death struggle
dead death
death sweat
dead death
death symbol
dead death
death tax
dead death
death thirst
death throe
dearth throses
dearth tick
dearth toll
dearth trance
dearth vacancy
dearth warrant
dearth weight
dearth wish
dearth wraith
dearth's bright angel
dearth's-face
dearth's-head
dearth's-head moth
dearth's-herb
dearth-bearing
dearth-bed
dearth-begirt
dearth-bell
dearth-bird
dearth-black
dearth-blow
dearth-boding
dearth-braving
dearth-bringing
dearth-cold
dearth-come-quickly
dearth-counterfeiting
dearth-darting
dearth-day
dearth-deaf
dearth-deafened
dearth-dealing
dearth-deep
dearth-defying
dearth-devoted
dearth-dewed
dearth-divided
dearth-divining
dearth-doing
dearth-doom
dearth-due
dearth-fire
dearth-laden
dearth-marked
dearth-pale
dearth-polluted
dearth-practiced
death-shadowed
death-sheeted
death-sick
death-stiffening
death-stricken
death-struck
death-subduing
death-swimming
death-threatening
death-throe
death-warrant
death-watch
death-weary
death-winged
death-worm
death-worthy
death-wound
death-wounded
deathbed deed
deathbed repentance
deathlike calm
deathlike silence
deathly hue
deathly pale
deathly pallor
deathwatch beetle
debase yourself
deating point
debenture bond
debenture stock
debit ticket
debonis non
derbris glacier
debt book
debt limit
debt of honor
debt of honour
debt of nature
debt service
debt slave
debt slavery
debtor and creditor account
debtor's prison
debts recovery court
debutante bob
deca-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
deceive yourself
deceleration parachute
decem-
decipation bed
decipitation table
decipitive cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decimo-sexto
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck board
deck bolt
deck boy
deck bridge
deck car
deck cargo
deck chair
deck curb
deck department
deck elevator
deck feather
deck floor
deck gang
deck gun
deck hand
deck hook
deck horse
deck iron
deck key
deck kicker
deck light
deck load
deck log
deck molding
deck nail
deck of cigarettes
deck officer
deck out
deck over
deck passage
deck passenger
deck pipe
deck plate
deck plating
deck pump
deck quoits
deck roof
deck seat
deck sheet
deck steward
deck stool
deck stopper
deck stringer
deck tackle
deck tennis
deck transom
deck turret
deck up
deck watch
deck-piercing
deck-piercing shell
decked out
decking chain
deckle edge
deckle strap
deckle-edged
declain against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
declination axis
declination circle
declination compass
declination parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
declined with thanks
declining market
declining years
decocction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
decoration of honor
decorative composition
decorative lighting
decorative painting
decorative sculpture
decorative style
decorative surgery
decorator color
decoy duck
decoy-duck
decrease in size
decrease in temperature
decree absolute
deep sensibility
dee six
dee sleep
dee space
dee structure
dee study
dee therapy
dee thought
dee water
dee, the
dee-affected
dee-affrighted
dee-asleep
dee-bellied
dee-biting
dee-blue
dee-bodied
dee-bosomed
dee-brained
dee-breasted
dee-breathing
dee-brooding
dee-browed
dee-buried
dee-chested
dee-colored
dee-contemplative
dee-crimsoned
dee-cut
dee-damasked
dee-discerning
dee-discount bond
dee-dish
dee-dish pie
dee-domed
dee-down
dee-downness
dee-draw
dee-drawing
dee-drawn
dee-drenched
dee-drew
dee-drinking
dee-drunk
dee-dye
dee-dyed
dee-dyed falsehood
dee-echoing
deep-embattled
deep-engraven
deep-etch plate
deep-eyed
deep-faced
deep-felt
deep-fermenting
deep-fetched
deep-fixed
deep-flewed
deep-freeze
deep-freezed
deep-freezer
deep-freezing
deep-fried
deep-froze
deep-frozen
deep-fry
deep-frying
deep-going
deep-green
deep-groaning
deep-grounded
deep-grown
deep-kiss
deep-laden
deep-laid
deep-laid plot
deep-laid scheme
deep-level mine
deep-lunged
deep-lying
deep-mouthed
deep-musing
deep-naked
deep-persuading
deep-piled
deep-pitched
deep-pointed
deep-pondering
deep-premeditated
deep-questioning
deep-reaching
deep-read
deep-revolving
deep-rooted
deep-rooted belief
deep-rootedness
deep-rooting
deep-sea
deep-sea diver
deep-sea diving
deep-sea lead
deep-sea line
deep-sea man
deep-sea smelt
deep-searching
deep-seated
deep-seatedness
deep-set
deep-settled
deep-sided
deep-sighted
deep-sinking
deep-six
deep-skirted
deep-sore
deep-sounding
deep-space ship
deep-stapled
deep-sunk
deep-sunken
deep-sweet
deep-sworn
deep-tangled
deep-thinking
deep-thoughted
deep-thrilling
deep-throated
deep-toned
deep-transported
deep-trenching
deep-troubled
deep-uddered
deep-vaulted
deep-versed
deep-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deeply involved
deeply involved in debt
deepwater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lick
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort boneset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
defense bond
defense counsel
defense in depth
defense mechanism
defense of a thesis
defense plant
defense reaction
defense test
defensive lineman
defensive stock
defensive strategy
defensive warfare
defer to
defer to your duty
deferential regard
deferred annuity
deferred assets
deferred bond
deferred income
deferred payments
deferred sentence
deferred share
deferred stock
defervescing plague
defiance of authority
defiance of time
deficiency account
deficiency anemia
deficiency bill
deficiency disease
deficiency judgment
deficiency statement
deficient number
deficit financing
deficit spending
definite article
definite integral
definite odor
definite-proportions law
definite-time
definitely right
 definitive bond
definitive host
definitive plumage
definitive work
deflagrating spoon
deflationary gap
deflationary spiral
deflecting bar
deflecting force
deflecting torque
deflection angle
deflection generator
deflection method
deflection offset
deflection scale
deflection yoke
deflection-modulated display
deformation curve
deformation ellipsoid
deformed bar
defray expenses
deft-fingered
defy authority
defy danger
defy time
degenerate state
degenerate states
degeneration disease
degenerative arthritis
degenerative change
degenerative disease
degenerative joint disease
degradation of energy
degradation disease
degradation of energy
degradation of variance
degree cut
degree-day
degree-granting institution
degrees of comparison
dehydrated alcohol
dehydrated foods
dei gratia
dei plenus
deon circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
deja vu
dejeuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
deleb palm
delegated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
deliberate upon
deliberately provoked
deliberative assembly
deliberative body
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium mussitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinuate
dentato-
denti-
dentil band
dentist's chair
dento-
denuded of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic acid
deport from
deport from the prepared text
deport this life
deported spirit
deported this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
depicting in the imagination
depletion allowance
deponent verb
depot yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
depraved appetite
deprecate yourself
depreciate yourself
depreciation charge
depress the scales
depressed arch
depressed area
depressed class
depressed population
depressed-bed
depressed-bed method
depression of spirit
depression range finder
depression slide
depression spring
depressive reaction
depressor nerve
deprivation of freedom
deprive of
deprive of freedom
deprive of life
deprive of office
deprive of sight
deprive you of
deprived of
deprived of reason
depriving of sight
depth bomb
depth charge
depth gauge
depth indicator
depth indicators
deepth interview
deepth measure
deepth measurement
deepth of field
deepth of focus
deepth of hold
deepth of misery
deepth of thought
deepth of winter
deepth perception
deepth psychology
deepth sounder
deepth sounding
deepth table
deepth-charge
deepth-charged
deepth-charging
depthing tool
depths of space
depths of your being
deputy collector
deputy commissioner
deputy sheriff
der Tag
der-doing
derailing switch
derb fine
dereistic thinking
derivable from
derivation from
derivative action
derivative title
derive from
derive pleasure from
derived authority
derived curve
derived four-channel system
derived function
derived set
derived unit
deriving from
derm-
dermat-
dermato-
dermato-autoplasty
dermo-
dermoid cyst
dernier cn
dernier cri
dernier ressort
derogate from
derrick block
derrick boat
derrick boatman
derrick car
derrick chain
derrick crab
derrick crane
derrick elevator
derrick engine
derrick floor
derrick floorman
derrick forge
derrick fork
derrick hoist
derrick hoistderrick lamp
derrick lamp
derrick maker
derrick making
derrick mast
derrick master
derrick sheaves
derrick sill
derrick skid
derrick skip
derrick spring
derrick stacker
derrick stool
derrick stove
derrick timber
derrick tower
desert trumpeter
desert under fire
desert varnish
desert weed
desert willow
desert your principles
desert-bred
desert-locked
desert-wearied
desertion of principle
desertion under fire
deserts of vast eternity
deserve punishment
design bedding
design body
design load
designate a proxy
designate an agent
desire body
desire concentration
desire for knowledge
desire for yourself
desire guidance
desires of the flesh
desiring water
desirous of
desirous to
desist from
desistquit it
desk calendar
desk clerk
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxyribonucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
destroyer escort
destroyer leader
destroyer tender
destroyer wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
duces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deuto-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deviation card
deviation factor
deviation warranty
devil bolt
devil carriage
devil chaser
devil dance
devil dancer
devil dancing
devil dog
devil dogs
devil grass
devil incarnate
devil lore
devil murder
devil of a
devil ray
devil take
devil to pay, the
devil worship
devil worshiper
devil worshipping
devil's advocate
devil's bit
devil's bones
devil's books
devil's claw
devil's coach-horse
devil's darning needle
devil's dung
devil's dust
devil's food cake
devil's grip
devil's guts
devil's ivy
devil's mark
devil's milk
devil's own luck
devil's paintbrush
devil's tattoo
devil's-bit
devil's-bones
devil's-ivy
devil's-pincushion
devil's-tongue
devil's-walking-stick
devil-born
devil-devil
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-careness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils’ chorus
devils-on-horseback
devoid of
devoid of truth
devolve on
devolve upon
devote the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
devoted friend
devoted friendship
devoted to
devoted to studies
devotee of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-bespattered
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dipped
dew-dropping
dew-drunk
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dextr-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro-
dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l-qa'dah
di grado in grado
di maiores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexahedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetyl morphine
diachronic linguistics
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
dialy-
dialysis machine
dialytic method
diameter tape
diametrically opposite
damido-
diamine dye
diamine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond cut diamond
diamond dash
diamond die
diamond digger
diamond digging
diamond dresser
diamond drill
diamond dust
diamond edition
diamond factory
diamond field
diamond fig
diamond file
diamond flounder
diamond flower
diamond gauge
diamond gravel
diamond green
diamond groove
diamond hammer
diamond hitch
diamond in the rough
diamond jubilee
diamond knot
diamond linen
diamond merchant
diamond mill
diamond mine
diamond mortar
diamond panel
diamond paste
diamond pencil
diamond photograph
diamond plant
diamond plate
diamond plow
diamond point
diamond polisher
diamond powder
diamond rattlesnake
diamond ring
diamond ring effect
diamond saw
diamond setter
diamond skin disease
diamond snake
diamond sparrow
diamond splitter
diamond stitching
diamond tool
diamond tooth
diamond trade
diamond truer
diamond twist
diamond wedding
diamond weevil
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-pane
diamond-point
diamond-point spoon
diamond-pointed
diamond-producing
diamond-shaped
diamond-skin disease
diamond-snake
diamond-tiled
diamond-tipped
diamondback moth
diamondback rattlesnake
diamondback terrapin
diamondback watersnake
diamyl sulfide
diapason diapente
diapason ditone
diapason normal
diapason normal pitch
diapason pitch
diaper pattern
diaper rash
diaper service
diaphragm current
diaphragm gauge
diaphragm motor valve
diaphragm process
diaphragm pump
diaphragm shutter
diaphragm valve
diarrhea of the mouth
diaspore clay
diastolic hypertension
diathermic treatment
diathermy machine
diatomaceous earth
diatonic interval
diatonic scale
diatonic semitone
diaz-oxide
diazo dye
diazo group
diazo process
diazo radical
diazo reaction
diazo-
diazamino group
diazamino radical
diazenium compound
diazenium salt
dib-hole
dibasic sodium phosphate
dibbuks dibbukim
dibutyl oxalate
dibutylamino-propanol
dicarbo-
dicarboxylic acid
dice coal
dice cup
dice roll
dice throws
dice-box
dice-top
dich-
dichloramine-t
dichlorodiethyl formal
dichlorodiethyl sulfide
dichloroethyl formal
dichloroethyl sulphide
dichlorophenoxyacetic acid
dicho-
dichro-
dichromatic vision
dichromatic acid
dicing board
dick test
dickey box
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non

dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
desinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
derent breed of cat
derent story
derent thing
derential analyzer
derential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
diffuse reflection
diffuse-porous
diffused junction
diffused lighting
diffusing screen
diffusion air pump
diffusion battery
diffusion chamber
diffusion coefficient
diffusion juice
diffusion process
diffusionist theory
dig around for
dig at
dig for
dig in
dig in your heels
dig into
dig out
dig up
dig up the past
dig you in the ribs
dig your heels in
dig your own grave
digest medium
digest of law
digested securities
digester tankage
digestive biscuit
digestive gland
digestive juice
digestive secretion
digestive secretions
digestive system
digger wasp
digging weight
digital clock
digital computer
digital data reducing system
digital differential analyzer
digital examination
digital feedback control
digital general purpose computer
digital graph plotter
digital process
digital watch
digitato-palmate
digitato-pinnate
digit-i-
digit-o-
diglycolic acid
diglycollic acid
dihedral angle
dihydrical alcohol
diisobutyl phthalate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilate acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sheeted
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dime museum
dime novel
dime store
dime-a-dozen
dime-store
dimension control
dimension lumber
dimension stone
dimethyl arsinic acid
dimethyl sulfate
dimethyl sulfoxide
diminish yourself
diminished dovetail
diminished responsibility
diminished seventh chord
diminished stile
diminishing returns
diminishing rule
diminishing stile
dimissorial letter
dimissory letter
din in the ear
dine not wisely but too well
dine out
dine with Duke Humphrey
diner-out
dinette set
dinette table
ding an sich
ding off
ding-a-ling
ding-dong
dingdong theory
dinge an sich
dinghy anchor
dingle-dangle
dining car
dining chair
dining compartment
dining hall
dining room
dining saloon
dining table
dining utensils
dinitro-
dinitrogen tetroxide
dinkel wheat
dinking die
dinkum oil
dinky-di
dinner audience
dinner bell
dinner call
dinner card
dinner chimes
dinner clothes
dinner club
dinner coat
dinner dance
dinner dress
dinner fork
dinner gong
dinner gown
dinner hour
dinner jacket
dinner knife
dinner napkin
dinner pail
dinner party
dinner plate
dinner ring
dinner room
dinner service
dinner set
dinner table
dinner wagon
dinner-dance
dinner-getting
diocesan conference
diocesan court
diophantine equation
diorite-porphyrite
dip a flag
dip circle
dip down
dip fault
dip into
dip needle
dip out
dip pipe
dip rider
dip rope
dip sector
dip shift
dip slip
dip snuff
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglycnergic acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
dipto-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-grant school
direct-indirect radiator
direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
direction tensor
direction test
direction theodolite
direction transmission
direction-finder station
directional antenna
directional derivative
directional gyro
directional signal
directional stability
directive therapy
director circle
director curve
director general
director plane
director regulus
director sphere
director's chair
director-general
directors general
directory arrangement
directory canvasser
dirigible balloon
dirigible torpedo
dirigo-motor
diriment impediment
dirk knife
dirt band
dirt bed
dirt cheap
dirt dauber
dirt eating
dirt farm
dirt farmer
dirt farming
dirt groove
dirt poor
dirt road
dirt wagon
dirt-besmeared
dirt-born
dirt-cheap
dirt-fast
dirt-flinging
dirt-free
dirt-grimed
dirt-incrusted
dirt-line
dirt-rotten
dirt-smirched
dirt-soaked
dirty allan
dirty bomb
dirty crack
dirty deal
dirty dig
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discar- nate
discernment of excellence
discharge lamp
discharge potential
discharge printing
discharge the duties of
discharge the functions of
discharge the office of
discharge tube
discharge valve
discharge your duty
discharge your function
discharger cup
discharging arch
discharging cargo
discharging freight
discharging pallet
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
disconnecting switch
discontinuance wage
discontinuity layer
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resisting
disease-spreading
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disgustingly rich
dish bearer
dish cleaner
dish cover
dish designer
dish drainer
dish feed
dish fit for a king
dish gravy
dish it out
dish maker
dish mop
dish mustard
dish night
dish out
dish plate
dish rack
dish reflector
dish the dirt
dish top
dish towel
dish truck
dish up
dish wagon
dish warmer
dish-crowned
dish-faced
dish-headed
dish-shaped
dishcloth gourd
dished keel
dishonest person
dishonorable discharge
dishonored bill
dishpan hands
disinclination to believe
disinclination to communicate
disincline from
disinclined to believe
disinclined to communicate
disinfecting candle
disintegration series
disjecta membra
disjoin yourself
disjunctive conjunction
disk armature
disk barrow
disk bit
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dismissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispatch tube
dispatch writer
dispatch writing
dispatch-bearer
dispatch-bearing
dispatch-rider
dispel your illusions
dispense from
disseminated sclerosis
disseminated tuberculosis
dissent from
dissenting opinion
dissipate your illusions
dissipation trail
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
divining rod
divining stick
divinity calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
do a bit
do a bunk
do a comparative study
do a deal
do a disservice
do a fade-out
do a favor
do a flip-flop
do a good deed
do a good turn
do a grave injustice
do a great wrong
do a gross injustice
do a hand's turn
do a hitch
do a kind deed
do a kindness
do a land-office business
do a lick of work
do a mischief
do a number on
do a repeat
do a right-about-face
do a service
do a slow burn
do a stint
do a strip-tease
do a tour
do a tour of duty
do a turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a frazzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your darndest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adj
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell’s solution
doberman pinscher
dobson fly
doch-an-dorrach
doch-an-dorris
doch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-walloper
dock-walloping
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
doctrine of inference
doctrine of terms
doctrine of the judgment
document bill
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecane acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doebling oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandilion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog sledge
dog sleigh
dog snapper
dog soap
dog spike
dog standard
dog star
dog stealing
dog stinkhorn
dog tag
dog tansy
dog tapeworm
dog tax
dog tent
dog the footsteps of
dog thistle
dog thorn
dog tick
dog tongue
dog town
dog track
dog train
dog trainer
dog training
dog tree
dog tune
dog violet
dog wagon
dog warden
dog warp
dog watch
dog wheat
dog wheel
dog whelk
dog whip
dog whistle
dog winkle
dog wrench
dog's age
dog's chance
dog's letter
dog's life, a
dog's-bane
dog's-ear
dog's-earred
dog's-meat
dog's-tail
dog's-tail grass
dog's-tongue
dog's-tooth
dog's-tooth check
dog's-tooth violet
dog-banner
dog-bitten
dog-bramble
dog-brier
dog-cart
dog-catcher
dog-cheap
dog-day cicada
dog-days
dog-draw
dog-drawn
dog-driven
dog-ear
dog-eared
dog-eat-dog
dog-end
dog-eyed
dog-faced
dog-fennel
dog-fish
dog-fisher
dog-fly
dog-footed
dog-fox
dog-gnawn
dog-gone
dog-grass
dog-head
dog-head hammer
dog-head spike
dog-headed
dog-hole
dog-hook
dog-hungry
dog-hutch
dog-in-the-manger
dog-keeping
dog-lame
dog-latin
dog-lean
dog-leaved
dog-leech
dog-leg
dog-leg fence
dog-leg hole
dog-leg stair
dog-legged
dog-legged stair
dog-mad
dog-nail
dog-owning
dog-paddle
dog-paddled
dog-paddling
dog-plum
dog-poor
dog-rose
dog-shore
dog-sick
dog-skin
dog-sleep
dog-star
dog-stone
dog-stopper
dog-tired
dog-toes
dog-tongue wampee
dog-tooth
dog-toothed
dog-tree
dog-trick
dog-trot
dog-vane
dog-violet
dog-watch
dog-weary
dog-whelk
dogbane family
dogberry tree
dogged perseverance
dogleg fence
dogmatic theology
dogtooth check
dogtooth spar
dogtooth star grass
dogtooth violet
dogtown grass
dogwood family
dogwood poisonbush
doing business
doing nicely
dolce far niente
dolce vita
dole cupboard
dole meadow
dole out
dolich-
doling out
doll baby
doll carriage
doll hospital
doll maker
doll out
doll up
doll's house
doll-faced
doll-like
dollar acceptance
dollar averaging
dollar bill
dollar bond
dollar chaser
dollar cost averaging
dollar crisis
dollar debenture
dollar deficit
dollar diplomacy
dollar exchange
dollar gap
dollar imperialism
dollar loan
dollar mark
dollar shortage
dollar-a-year man
dollars to doughnuts
dolled up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliarly visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domineer over
dominical altar
dominical letter
dominion day
dominion rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don't lose any sleep over it
don't make waves
don't rock the boat
don't spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
donkey jacket
donkey pump
donkey puncher
donkey sled
donkey tender
donkey topsail
donkey vote
donkey's ears
donkey's years
donkey's years ago
donkey-drawn
donkey-eared
donkey-work
donnybrook fair
doob grass
doob palm
doob ring
doom to
doom to perdition
doom tree
doomed hope
doomed hopes
doone-head-clock
doone bed
doone chain
doone check
doone closer
doone fastener
doone finisher
doone fitter
doone furniture
doone grass
doone handle
doone hanger
doone hasp
doone hinge
doone jack
doone key
doone knocker
doone latch
doone lock
doone maker
doone mat
doone matting
doone money
doone opener
doone prize
doone scraper
doone spring
doone stile
doone strap
doone switch
doone to door
doone track
doone trap
doone trapper
doone-roller
doone-shaped
doone-to-door
doone-to-door salesman
dooryard grass
dooryard plantain
dop doctor
dopa reaction
dope fiend
dope off
dope out
dope pusher
dope sheet
dope smuggling
dope story
dope up
dope, the
doppler effect
dor bee
dor bug
dor fly
dor-fly
dorcas gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acrostic
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double cloth
double coconut
double concerto
double contingency
double contraoctave
double corposant
double counterpoint
double cream
double crochet
double cross
double crown
double cup
double dagger
double dare
double date
double decomposition
double demy
double diode
double dome
double dot
double double cap
double dresser
double drift
double dummy
double eagle
double elephant
double end
double ender
double entendre
double entendres
double entente
double entry
double exposure
double fault
double feature
double first
double flat
double flower
double foolscap
double for
double fueler
double fugue
double genitive
double glazing
double half-round file
double harness
double helix
double hitch
double hyphen
double image
double in brass
double indemnity
double integral
double jeopardy
double jump
double luff tackle
double magnum
double march
double meaning
double monastery
double mordent
double negative
double obelisk
double or mutual change
double or nothing
double or quits
double orange daisy
double over
double paddle
double pair royal
double pedal point
double personality
double piece
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double sprit
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-beat valve
double-bedded
double-bell euphonium
double-benced
double-biting
double-bitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasted jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-buttoned
double-chain sling
double-charge
double-check
double-chinned
double-clasping
double-claw
double-clutch
double-coated film
double-concave
double-convex
double-creme
double-crested
double-crested cormorant
double-crop
double-cropped
double-cropping
double-cross
double-crosser
double-crossing
double-cup insulator
double-cupped
double-current generator
double-current signaling
double-cut
double-cut file
double-cut saw
double-cylinder planer
double-dare
double-date
double-dated
double-dating
double-dealer
double-dealing
double-deck
double-decked
double-decker
double-decker sandwich
double-declutch
double-disk
double-disk harrow
double-distilled
double-ditched
double-dodge
double-dog dare
double-dome
double-doored
double-dot display
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-hearted
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leaded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted and pretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-riveted
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
double-tongue
double-tongued
double-tonguing
double-tooth
double-track
double-trenched
double-trouble
double-truck heading
double-twisted
double-u
double-visaged
double-voiced
double-windowed
double-winged
double-work
double-worked
do ubleness of heart
dove-colored
dove-eyed
dove-gray
dove-shaped
dover grass
dover's powder
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
drabble in the mud
dracaena palm
draco lizard
draconic month
draft act
draft allowance
draft animal
draft beer
draft board
draft box
draft call
draft chair
draft dodger
draft engine
draft evener
draft gauge
draft gear
draft horse
draft lottery
draft mark
draft mill
draft net
draft off
draft pin
draft rein
draft rod
draft scale
draft tube
draft-exempt
drafted man
drafting board
drafting paper
drafting room
drafting yard
drag a lengthening chain
drag along
drag anchor
drag at your chariot wheel
drag axis
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dragger-down
dragger-out
dragger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
draggle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
dragon plant
dragon tie
dragon tree
dragon turnip
dragon withe
dragon's blood
dragon's head
dragon's tail
dragon's-tongue
dragon-eyed
dragon-faced
dragon-fly
dragon-mouthed
dragon-ridden
dragon-root
dragon-tree
dragon-winged
dragon bird
drain arm
drain away
drain cleaner
drain cock
drain cup
drain digger
drain exhaust
drain faucet
drain grate
drain inlet
drain layer
drain of color
drain of resources
drain off
drain out
drain pit
drain pump
drain repairer
drain rocket
drain spade
drain tester
drain the cup
drain trap
drain tube
drain valve
drain well
drainage area
drainage basin
drainage benefit
drainage canal
drainage coefficient
drainage cycle
drainage district
drainage gate
drainage inlet
drainage inspector
drainage level
drainage pipe
drainage pit
drainage pump
drainage shaft
drainage system
drainage theory
drainage tile
drainage trap
drainage tube
drainage tunnel
drainage well
drainage wind
drained of color
draining board
draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
drama-writing
dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drap-de-berry
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
draw yourself up
draw-
draw-arch
draw-bar
draw-boy
draw-bridge
draw-cut
draw-file
draw-glove
draw-knife
draw-latch
draw-loom
draw-net
draw-out table
draw-plate
draw-sheet
draw-top table
draw-water
draw-well
drawback collet
drawback lock
drawbar horsepower
drawbar load
drawbar pull
drawcut shaper
drawer dovetail
drawer pull
drawer-down
drawer-in
drawer-off
drawer-out
drawer-up
drawing account
drawing awl
drawing bench
drawing block
drawing board
drawing book
drawing card
drawing chalk
drawing chisel
drawing compasses
drawing crayon
drawing desk
drawing die
drawing forth
drawing frame
drawing glove
drawing in
drawing ink
drawing instrument
drawing knife
drawing lots
drawing machine
drawing office
drawing out
drawing paper
drawing pen
drawing pencil
drawing pin
drawing pliers
drawing power
drawing press
drawing punch
drawing room
drawing rooms
drawing shave
drawing slate
drawing string
drawing table
drawing thread
drawing too thin
drawing-in
drawing-knife
drawing-master
drawing-out
drawing-room
drawing-room car
drawing-roomy
drawings-in
drawn butter
drawn butter sauce
drawn out
drawn to
drawn work
drawn-out
drawn-thread work
drawn-work
dray horse
dread rattling thunder
dread-bolted
dread-bolted thunder
dream allegory
dream analysis
dream book
dream dance
dream girl
dream life
dream light
dream name
dream of
dream of other things
dream on
dream state
dream stuff
dream symbolism
dream time
dream up
dream vision
dream wish
dream work
dream world
dream-blinded
dream-born
dream-built
dream-created
dream-footed
dream-found
dream-haunted
dream-haunting
dream-hole
dream-perturbed
dream-stricken
dreamer of dreams
dreamless sleep
dreamlike thinking
dreamy abstraction
dreamy-eyed
dreamy-minded
dreamy-souled
dreamy-voiced
drear-nighted
drear-white
dreary-eyed
dreary-looking
dreary-minded
dreary-souled
dredge belt
dredge boat
dredge box
dredge bucket
dredge can
dredge chain
dredge gear
dredge hoist
dredge hopperman
dredge hull
dredge ladder
dredge malt
dredge net
dredge out
dredge pipe
dredge pontoon
dredge pump
dredge rope
dredge up
dredger bucket
dredging box
dredging bucket
dredging machine
dree-draw
dregs of society
drenched with sweat
drenching rain
dress blues
dress cap
dress circle
dress coat
dress designer
dress down
dress face
dress form
dress goods
dress in
dress out
dress parade
dress rehearsal
dress sheers
dress shield
dress ship
dress shirt
dress shop
dress suit
dress the hair
dress the house
dress the wounds
dress tie
dress to kill
dress uniform
dress up
dress whites
dress-coated
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
dressed up
dresser cutter
dresser set
dresser spindle
dresser spooler
dresser top
dresser trunk
dressing case
dressing down
dressing forceps
dressing glass
dressing gown
dressing jacket
dressing room
dressing sack
dressing ship
dressing station
dressing table
dressing-board
dressing-case
dressing-down
dressmaker's model
dribble away
driblet cone
dribbs and drabs
dried beef
dried milk
dried up
dried-fruit beetle
dried-up
drier-down
drift along
drift anchor
drift angle
drift avalanche
drift away
drift boat
drift bottle
drift copper
drift fisher
drift ice
drift indicator
drift keel
drift lead
drift map
drift meter
drift mine
drift mining
drift net
drift netter
drift off course
drift plug
drift sail
drift sight
drift slide
drift transistor
drift tube
drift wire
drift with the current
drift-ice
drift-netter
drift-wood
driggle-draggle
drill attachment
drill barrel
drill barrow
drill bit
drill block
drill book
drill bow
drill bushing
drill cartridge
drill case
drill changer
drill chuck
drill clamp
drill cleaner
drill cloth
drill collar
drill collet
drill corps
drill cutter
drill cylinder
drill day
drill drift
drill driver
drill engine
drill extension
drill extractor
drill feeder
drill file
drill fluter
drill gauge
drill grinder
drill ground
drill hall
drill hardener
drill harrow
drill holder
drill hole
drill instructor
drill jar
drill jig
drill lubricato
drill maker
drill making
drill mounting
drill pin
drill pipe
drill plow
drill point
drill pointer
drill press
drill rack
drill ratchet
drill regulation
drill rest
drill room
drill sergeant
drill shank
drill sharpener
drill ship
drill sleeve
drill socket
drill speeder
drill spring
drill stand
drill steel
drill straightener
drill team
drill tester
drill tower
drill track
drill twister
drill worker
drill yard
drill-like
drilling bit
drilling fluid
drilling hammer
drilling jig
drilling journal
drilling machine
drilling mud
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drip board
drip box
drip cap
drip cock
drip coffee
drip coffee maker
drip cup
drip grind
drip groove
drip joint
drip loop
drip molding
drip oil
drip pan
drip pipe
drip pocket
drip primrose
drip sheet
drip tank
drip tip
drip transfusion
drip tray
drip treatment
drip trough
drip valve
drip-dried
drip-drip
drip-drop
drip-dry
drip-drying
drip-ground
dripping pan
dripping point
dripping wet
drive a bargain
drive a hard bargain
drive a roaring trade
drive ahead
drive an entering wedge
drive animals
drive at
drive away
drive back
drive crazy
drive dull care away
drive fit
drive from your thoughts
drive home to
drive in
drive insane
drive into a corner
drive into the open
drive into your head
drive mad
drive nozzle
drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
drivel away
driveling idiot
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizziling mist
drof-land
dagogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop a tear
drop all idea of
drop anchor
drop arch
drop asleep
drop away
drop bar
drop behind
drop biscuit
drop black
drop bolt
drop bomb
drop bottom
drop box
drop by
drop by drop
drop cannon
drop chalk
drop chronograph
drop cloth
drop cooky
drop cord
drop curtain
drop dead
drop down
drop ear
drop elbow
drop ell
drop fly
drop folio
drop forge
drop forging
drop frame
drop from sight
drop from the clouds
drop from your thoughts
drop front
drop game
drop girt
drop glass
drop goal
drop guide
drop hammer
drop hammerman
drop handle
drop hanger
drop head
drop in
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drop stroke
drop strake
drop sulphur
drop table
drop tank
drop tee
drop testing machine
drop the ball
drop the curtain
drop the handkerchief
drop the hook
drop the mooring
drop the subject
drop to pieces
drop valve
drop vie
drop weight
drop window
drop wire
drop worm
drop your eyes
drop your gaze
drop your guard
drop zinc
drop-
drop-away
drop-bottom bucket
drop-center rim
drop-earred
drop-forged
drop-forged
drop-forger
drop-forging
drop-forging die
drop-front
drop-kick
drop-kicker
drop-leaf
drop-leaf table
drop-leg
drop-letter
drop-meal
drop-off
drop-out
drop-out current
drop-out voltage
drop-scene
drop-shaped
drop-stich
drophead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
drove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drunk as a fiddler
drunk as a lord
drunk as a piper
drunk as an owl
drunkard's chair
drunken brawl
drunken carousel
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-blowing
dry-bone ore
dry-boned
dry-bones
dry-brush
dry-bulb thermometer
dry-burnt
dry-clean
dry-cleanse
dry-cleansed
dry-cleansing
dry-cure
dry-curing
dry-dock
dry-dye
dry-eared
dry-eyed
dry-farm
dry-fine
dry-fist
dry-fly
dry-fly fishing
dry-foot
dry-footed
dry-footing
dry-founder
dry-fruited
dry-grind
dry-gulch
dry-handed
dry-heat cure
dry-ki
dry-land blueberry
dry-land farming
dry-leaved
dry-lipped
dry-looking
dry-mouthed
dry-nurse
dry-nursed
dry-nursing
dry-paved
dry-pick
dry-pipe system
dry-pipe valve
dry-plate process
dry-powder extinguisher
dry-press
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
dryness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duchesse lace
duck acorn
duck and drake
duck and run
duck ant
duck blue
duck breeder
duck bumps
duck call
duck duty
duck egg
duck fit
duck foot
duck grass
duck green
duck gun
duck hawk
duck hunter
duck joint
duck keeper
duck mole
duck moss
duck oak
duck on a rock
duck on drake
duck on the rock
duck out
duck pass
duck pen
duck potato
duck reaper
duck responsibility
duck ring
duck sauce
duck shot
duck sickness
duck snipe
duck soup
duck table
duck the issue
duck wheat
duck willow
duck's arse
duck's bill
duck's egg
duck's meat
duck-bill
duck-billed
duck-billed dinosaur
duck-billed platypus
duck-egg
duck-egg blue
duck-footed
duck-hawk
duck-legged
duck-retter
duck-toed
duckbill cat
duckbill gar
duckbill platypus
ducking stool
ducking-pond
ducking-stool
ducks and drakes
ducktail haircut
duckweed family
duct keel
ductless gland
dudder grass
dude ranch
dude up
due bill
due course
due course of law
due date
due north
due process
due process of law
due punishment
due reward
due season
due sense of
due to
dueling pistol
dues-paying member
duff up
duffel bag
duffel coat
duffle coat
dug-out
dug-up
duke cherry
dukey rider
dulcimer harpsichord
dull as dish water
dull as dishwater
dull as ditchwater
dull bitterness of cold
dull hearing
dull of hearing
dull of mind
dull the pain
dull thud
dull tool
dull-brained
dull-browed
dull-colored
dull-eared
dull-edged
dull-eyed
dull-head
dull-headed
dull-headedness
dull-lived
dull-looking
dull-pated
dull-pointed
dull-red
dull-scented
dull-sighted
dull-sightedness
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumb creature
dumb friend
dumb rabies
dumb sheave
dumb show
dumb stricken
dumb struck
dumb thing to do
dumb trick
dumb up
dumb with grief
dumb-bell
dumb-bird
dumb-cane
dumb-show
dumb-struck
dumb-waiter
dumble-
dumdum bullet
dumdum fever
dummy antenna
dummy block
dummy car
dummy cartridge
dummy cop
dummy experiment
dummy index
dummy joint
dummy pass
dummy share
dummy up
dummy variable
dummy whist
dummy-head torpedo
dump altitude
dump body
dump car
dump heap
dump hook
dump on
dump pile
dump rake
dump scow
dump truck
dump wagon
dumping bucket
dumping car
dumping cart
dumping device
dumping duty
dumping grate
dumping ground
dumping machine
dumping place
dumping press
dumping truck
dumping wagon
dumping cactus
dumpy level
dun crow
dun diver
dun fly
dun-belted
dun-bird
dun-brown
dun-colored
dun-diver
dun-drab
dun-driven
dun-haunted
dun-olive
dun-plagued
dun-racked
dun-red
dun-white
dun-yellow
dun-yellowish
duncan phyfe
dunce cap
dunce's cap
dundathu pine
dundrea- ries
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodiode-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
duplexity theory
duplicate bridge
duplicate plate
duplicate-pinnate
duplicating machine
duplication of effort
duplication of the cube
duplicato-
duplicato-dentate
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-laying
dust-point
dust-polluting
dust-producing
dust-soiled
dust-throwing
dust-tight
dust-up
duster coat
duster-off
dusting brush
dusting colors
dusting powder
dusting-powder
dusty clover
dusty death
dusty miller
dutch clover
dutch courage
dutch door
dutch elm disease
dutch hoe
dutch lunch
dutch oven
dutch treat
dutch uncle
duties and responsibilities
duty calls you to
duty officer
duty visit
duty-bound
duty-free
duty-free shop
dvi-manganese
dwarf Japanese quince
dwarf Juneberry
dwarf alder
dwarf banana
dwarf bean
dwarf chestnut
dwarf cornel
dwarf crested iris
dwarf door
dwarf fan palm
dwarf ginseng
dwarf goldenrod
dwarf laurel
dwarf mallow
dwarf meadow grass
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dyewood cutter
dyewood extract
dyewood grinder
dyewood liquor
dyewood miller
dying away
dying breath
dying day
dying down
dying for
dying hour
dying off
dying to
dying word
dying words
dynam-
dynamic economics
dynamic electricity
dynamic energy
dynamic geology
dynamic lift
dynamic markings
dynamic meteorology
dynamic microphone
dynamic pressure
dynamic psychology
dynamic speaker
dynamic stability
dynamic symmetry
dynamic wind rose
dynamical astronomy
dynamical stability
dynamite bomb
dynamite cap
dynamite glycerin
dynamite gun
dynamite maker
dynamite mixer
dynamite thawer
dynamo belting
dynamo brush
dynamo casting
dynamo commutator
dynamo erecter
dynamo lubricator
dynamo winder
dynamo-
dynamometric governor
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-
eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
eagle fern
eagle flower
eagle gull
eagle hawk
eagle lectern
eagle owl
eagle plume
eagle ray
eagle rock
eagle scout
eagle vulture
eagle wing
eagle-billed
eagle-eyed
eagle-flighted
eagle-hawk
eagle-headed
eagle-pinioned
eagle-seeing
eagle-sighted
eagle-winged
eagle-wood
ear conch
ear cornet
ear coverts
ear crystal
ear drops
ear dust
ear flap
ear fly
ear for music
ear for, an
ear fungus
ear guard
ear index
ear leaf
ear lobe
ear mold
ear muff
ear of corn
ear off
ear piercer
ear reach
ear rot
ear sand
ear shell
ear snail
ear specialist
ear stone
ear tag
ear tick
ear tree
ear trumpet
ear wagon
ear, nose, and throat specialist
ear-ache
ear-brisk
ear-cockie
ear-deafening
ear-filling
ear-leaved
ear-mark
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earn a bad name
earn a livelihood
earn a living
earn your keep
earned income
earned run
earned run average
earned surplus
earnest money
earnest-penny
earning grass
ears more deaf than adders
earth almond
earth apple
earth art
earth artist
earth auger
earth battery
earth bob
earth bread
earth cell
earth chestnut
earth circuit
earth closet
earth club
earth color
earth colour
earth crab
earth crust
earth current
earth division
earth dweller
earth flax
earth flea
earth foam
earth goddesses
earth hog
earth hole
earth house
earth hunger
earth induction compass
earth inductor compass
earth ivy
earth life
earth lodge
earth louse
earth metal
earth metals
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth plate
earth plum
earth quadrant
earth science
earth smoke
earth spirit
earth spring
earth stopper
earth table
earth tide
earth tilting
earth tone
earth tremor
earth up
earth wave
earth wax
earth wire
earth wolf
earth's crust
earth-apple
earth-ball
earth-board
earth-born
earth-bound
earth-boundness
earth-convulsing
earth-delving
earth-destroying
earth-devouring
earth-din
earth-dwelling
earth-eating
earth-engendered
earth-fed
earth-god
earth-goddess
earth-homing
earth-light
earth-lit
earth-mad
earth-moving
earth-nut
earth-old
earth-refreshing
earth-rending
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
easter monday
easter-day
easterly wave
eastern coral snake
eastern crown
eastern diamondback rattlesnake
eastern hemisphere
eastern hemlock
eastern kingbird
eastern orthodox
eastern red cedar
eastern time
easting down
easy aces
easy as falling off a log
easy as pie
easy chair
easy circumstances
easy come
easy come, easy go
easy death
easy does it
easy end
easy game
easy go
easy going
easy lay
easy mark
easy mind
easy money
easy of belief
easy on the eyes
easy pickings
easy prices
easy purse strings
easy rider
easy slope
easy street
easy target
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crow
eat dirt
eat heartily
eat hearty
eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
ec-
ecaille work
ecca leobion
ecce homo
ecce signum
eccle grass
ecclesi-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
editio princeps
edition bindery
edition binding
edition time
ditiones principes
editor in chief
editor-in-chief
editorial writer
editorial-writing
editors in chief
educated class
educated language
educated man
educated speech
educational administrator
educational film
educational institution
educational psychology
educational television
eel cat
eel fork
eel netting
eel-back flounder
eel-backed
eel-bed
eel-catching
eel-fare
eel-pout
eel-shaped
eel-skin
eel-spear
eentsy-weentsy
eeny meeny miney moe
ef-
efface from the memory
efface yourself
effect a sale
effect of
effect your escape
effective current
effective electromotive force
effective force
effective horsepower
effective pitch
effective rejoinder
effective resistance
effective sound pressure
effective style
effector organ
effeminate male
efferent neuron
efficiency apartment
efficiency engineer
efficiency engineering
efficiency expert
efficient cause
effigy mound
efflux tube
effort syndrome
effusion balance
effusive rock
efwatakala grass
egads button
egg albumen
egg albumin
egg and anchor
egg and dart
egg and spoon race
egg and tongue
egg apparatus
egg cell
egg coal
egg cozy
egg cream
egg cup
egg drop soup
egg flip
egg foo yong
egg glass
egg in your beer
egg on
egg roll
egg rolling
egg salad sandwich
egg sauce
egg sleeker
egg slice
egg spoon
egg stone
egg tempera
egg timer
egg tooth
egg white
egg whites
egg-and-spoon race
egg-bound
eight-oar
eight-oared
eight-ply
eight-quarter cap
eight-spot
eight-square
eight-wheeler
eighter from Decatur
eightfold way
eighth note
eighth rest
eighth stock
eightsome reel
eighty-eight
eighty-eighth
eighty-fifth
eighty-first
eighty-five
eighty-four
eighty-fourth
eighty-nine
eighty-niner
eighty-ninth
eighty-one
eighty-second
eighty-seven
eighty-seventh
eighty-six
eighty-sixth
eighty-third
eighty-three
eighty-two
eis wool
either or
either-or
ejection capsule
ejection seat
ejector seat
eka-aluminum
eka-iodine
ebile
ebile out
ebile out a living
ebile out an existence
ebile-name
el dorado
elaeo-
elan vital
elao-
elastic anklet
elastic axis
elastic band
elastic bandage
elastic binder
elastic braid
elastic cement
elastic center
elastic currency
elastic deformation
elastic gel
elastic hosier
elastic hosiery
elastic kneecap
elastic limit
elastic loom
elastic modulus
elastic money
elastic object
elastic paper
elastic rubber
elastic stocking
elastic substance
elastic tape
elastic thread
elastic tissue
elastic varnish
elastic veiling
elastic wave
elastic-seeming
elastic-sided
elbow bender
elbow board
elbow catch
elbow cop
elbow crooker
elbow grease
elbow in
elbow in the ribs
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
d elder wine
d elder-born
d elder-brother
d elder-leaved
d elder-sister
d elderberry wine
d eldest hand
d eldest of things
d eldest-born
d elec cement
d elected by acclamation
d election board
d election district
d election fraud
d election returns
d elective operation
d electoral college
d electoral district
d electoral vote
d electr-
d electra complex
d electric arc
d electric attraction
d electric beaver
d electric blanket
d electric blue
d electric brougham
d electric cable
d electric candle
d electric capacitance
d electric car
d electric chair
d electric charge
d electric circuit
d electric clock
d electric column
d electric conduction
d electric constant
d electric cooker
d electric cord
d electric current
d electric detonator
d electric dipole moment
d electric discharge
d electric drill
d electric driller
d electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electric fish
electric flow
electric frying pan
electric furnace
electric fuse
electric gain
electric glow
electric guitar
electric hammer
electric hare
electric heat
electric heater
electric heating
electric horsepower
electric intensity
electric iron
electric lamp
electric light
electric light bulb
electric lighting
electric meter
electric meters
electric mole
electric motor
electric needle
electric organ
electric pad
electric polarity
electric potential
electric power
electric railway
electric range
electric ray
electric razor
electric reactor
electric refrigeration
electric refrigerator
electric repulsion
electric resistance
electric riveter
electric roaster
electric sander
electro-discharge machining
electro-magnet
electro-optical effect
electro-organic chemistry
electro-osmosis
electro-osmotic
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electrolier switch
electrolytic capacitor
electrolytic cell
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electromagnetic lifting magnet
electromagnetic moment
electromagnetic pump
electromagnetic radiation
electromagnetic speaker
electromagnetic spectrum
electromagnetic tape
electromagnetic unit
electromagnetic wave
electromechanical controller
electromotive force
electromotive series
electron accelerator
electron affinity
electron beam
electron camera
electron capture
electron cloud
electron diffraction
electron dynamics
electron emission
electron flow
electron gas
electron gun
electron layers
electron lens
electron magnetic spectroscope
electron micrograph
electron microscope
electron microscopy
electron movement
electron multiplier
electron optics
electron pair
electron physics
electron probe microanalysis
electron ray
electron shells
electron shower
electron spin
electron spin resonance
electron state
electron stream
electron telescope
electron theory
electron theory of atoms
electron theory of electricity
electron theory of solids
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic communication
electronic communications
electronic comparator
electronic computer
electronic computers
electronic control
electronic cop
electronic counter
electronic data processing
electronic detector
electronic device
electronic devices
electronic drum
electronic effect
electronic emission
electronic engineering
electronic fix
electronic flash
electronic fuel gauge
electronic hearing aid
electronic heater
electronic heating
electronic limit gauge
electronic meter
electronic meters
electronic music
electronic navigation
electronic nutcracker
electronic organ
electronic oscillator
electronic pilot
electronic potentiometer
electronic precipitator
electronic recorder
electronic refrigeration
electronic refrigerator
electronic revolution
electronic scanning
electronic servo
electronic stenciling machine
electronic stethoscope
electronic surveillance
elementary education
elementary instruction
elementary mathematics
elementary metal
elementary metals
elementary particle
elementary process
elementary quantum of action
elementary school
elementary unit
elemi figs
eleolite syenite
elephant apple
elephant beetle
elephant bird
elephant driver
elephant fish
elephant grass
elephant gun
elephant seal
elephant shrew
elephant’s trunk
elephant’s trunk snake
elephant’s-ear
elephant’s-foot
elephant’s-foots
elephant-ear fern
elephant-hide pahoehoe
eleuthera bark
eleuthero-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
elevator conveyer
elevator dredge
elevator girl
elevator man
elevator operator
elevator shaft
elevator shaft-elevator signal
elevator signal
elevator starter
eleven o'clock
eleven-o'clock-lady
eleven-plus
eleven-year period
eleventh chord
eleventh hour
eleventh-hour
elf arrow
elf child
elf dance
elf kind
elf kindred
elf knight
elf owl
elf queen
elf-god
elf-lock
elf-shoot
elf-shot
elf-stricken
elf-struck
elf-taken
elfin-tree
eligible paper
elimination contest
elisor jury
elite corps
elite group
elite or long primer
elite troops
elixir of life
elixir vitae
elk bark
elk clover
elk nut
elk-grass
ell-broad
ell-long
ell-wand
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
emerging from
embryo bearer
embryo sac
embryogenic disk
embryonic layer
embryonic membrane
emerald copper
emerald cut
emerald green
emerald toucanet
emerald-green
emerge from
emergency barrage
emergency boat
emergency brake
emergency control
emergency exit
emergency landing field
emergency landing gear
emergency light
emergency man
emergency money
emergency operation
emergency rations
emergent evolution
emeritus status
emery belt
emery board
emery cloth
emery file
emery paper
emery powder
emery rock
emery surfacer
emery wheel
emetic-cathartic
eminence grise
eminent domain
emission current
emission spectrum
emission theory
emit a smell
emit a sound
emitter current
emitter junction capacitance
emitter resistance
emitter signal current
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
emperor penguin
empire builder
empire building
empire cloth
empire day
empire-builder
empircal treatment
empirical existence
empirical fact
empty-mouthed
empty-noddled
empty-paneled
empty-pated
empty-skulled
empty-stomached
empty-vaulted
empty-voiced
emu apple
emu bush
emu grass
emu-wren
emulsion colloid
emulsion paint
en attendant
en avant
en bloc
en brochette
en brosse
en casserole
en clair
en dash
en deshabille
en echelon
en effet
en f
en face
en famille
en garde
en grand seigneur
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
en plein air
en plein jour
en plus
en prise
en quad
en rapport
en regle
en revanche
en route
en route to
en soleil
en space
en suite
en tapinois
en-
enabling act
exact laws
enacting clause
enamel bud
enamel cell
enamel kiln
enamored of
enb-
encased heart
encaustic cerography
encaustic painting
encephal-
encephalitis lethargica
encephalo-
enchanter's nightshade
encircling movement
enclosed order
enclosed space
enclosure act
enclosure wall
encompass with shadow
encounter danger
encounter group
encounter therapy
encroach upon
encyclical letter
encyclopedic knowledge
end around
end artery
end bell
end bulb
end burner
end for end
end game
end in smoke
end in view
end line
end man
end matter
end mill
end of burning
end of debate
endemic disease
ender-on
ender-up
endgate seeder
endive blue
endless belt
endless chain
endless duration
endless round
endless supply
endless task
endless time
endo salt
endo-
endocentric compound
endocentric construction
endocrine disease
endocrine gland
endoderm disc
endoderm lamella
endogamous group
endomersion lens
endomersion objective
endomorphism ring
endoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endotherm knife
endow with
endow with life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdu
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
engaged column
engaged in thought
engaged tone
engagement book
engagement ring
engine builder
engine cleaner
engine company
engine control
engine controls
engine cultivator
engine department
engine driver
engine fitter
engine gauge
engine house
engine lathe
engine maker
engine making
engine parts
engine pilot
engine rod
engine room
engine shop
engine size
engine smith
engine space
engine tender
engine turning
engine work
engine worker
engine yard
engine-driven
engine-room officer
engine-room telegraph
engine-sized
engine-sizer
engine-turned
engine-turner
engine-type generator
engineer corps
engineer's chain
engineer's hammer
engineering chemistry
engineering school
engines of war
english breakfast tea
english foxhound
english horn
english muffin
english rabbit
english setter
english shepherd
english sonnet
english springer
english toy spaniel
english walnut
engorgement colic
engrave on
engraved invitation
engraver beetle
engraver's proof
engraver's trick
engraving process
engraving tool
engross the mind
engross the thoughts
engrossed in
engrossed in thought
enharmonic chord
enharmonic diesis
enharmonic interval
enharmonic modulation
enharmonic note
enharmonic scale
enharmonic tetrachord
enharmonic tie
enigma canon
enigmatic canon
enigmatic question
enigmato-

enjoy a certain position
enjoy friendly relations with
enjoy good health
enjoy good relations with
enjoy prosperity
enjoy single blessedness
enjoy the use of
enjoy your own company
enjoy yourself
enjoying health
enjoyment of property
enlarge the mind
enlarge upon
enlist into service
enlist under the banner of
enlisted man
enlisted woman
enmeshed in
ennea-etric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead
en-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
enter-entered hound
entered through another gate
enteric fever
entering wedge
entero-entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre deux ages
entre nous
entrenching tool
entrust with information
entry card
enula campana
envelope addresser
envelope bander
envelope case
envelope clasp
envelope designer
envelope die
envelope folder
envelope gummer
envelope holder
envelope maker
envelope moistener
envelope opener
envelope printer
envelope sealer
envelope table
envelope top
envelope weigher
environing circumstances
environing phenomena
environmental conservation
environmental disease
environmental diseases
environmental pollution
environmental resistance
envoy extraordinary
enwrap the thoughts
enwrapped in mystery
enzootic ataxia
eo nomine
eo-
eol-
eolian deposit
eolitic man
ep-
epacris family
epana-
epater le bourgeois
epaulet bat
epaulet sleeve
epaulette tree
ephthletic vowel
eph-
ephemeris second
ephemeris time
epi-
epic machinery
epic poet
epic poetry
epic simile
epic theater
epic verse
epicanthic fold
epicyclic train
epicycloidal gear
epicycloidal wheel
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglottot-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
epiphysis cerebri
episcopal ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistle side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epitheli-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equalizing file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilaterial hyperbola
equilaterlal triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
erlenmeyer flask
ermine moth
erm-bleater
erm-fern
erosion cycle
erosion surface
eroso-
erotic art
erotic literature
erotic novel
erotic poetry
eroto-
errand boy
errand girl
errare humanum est
erring sister
error corrector
error detector
error in judgment
error in speech
error of closure
error signals
error-blasted
error-darkened
error-prone
error-proof
error-stricken
error-tainted
error-teaching
eruptive fever
erythema induratum
erythema nodosum
erythr-
erythredema polyneuropathy
erythro-
erythroblastosis fetalis
erythroblastosis neonatorum
erythrol tetranitrate
es-
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
esapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophageal ulcer
esophageal speech
esophageo-cutaneous
esophago-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d'escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esto perpetua
estragn oil
estral cycle
estragelo alphabet
estrous cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et seqq
et sequens
et sic de similibus
et sqq
et tu
etain blue
etalon post
etaoin shrdlu
etch indelibly in the mind
etched glass
etching ball
etching ground
etching needle
etching point
etching silk
etching stitch
etching varnish
eternal damnation
eternal home
eternal life
eternal object
eternal re-creation
eternal recurrence
eternal rest
eternal return
eternal sleep
eternal triangle
eternal universal
eternal verities
eternal youth
eternally the same
eternity ring
eth-
ethane dinitrile
ethanedioic acid
ether drift
ether extract
ether space
ether value
etheric body
etheric double
etheric self
etherin theory
ethical code
ethical drug
ethical formalism
ethical hedonism
ethical nihilism
ethical nihilist
ethical philosophy
ethical relativism
ethical relativist
ethical self
ethical system
ethico-
ethiops martial
ethiops mineral
ethmo-
ethmoid bone
ethnic community
ethnic group
ethnic joke
ethnic music
ethnic vote
ethno-
ethyl acetate
ethyl acetoacetate
ethyl acetone
ethyl alcohol
ethyl aminobenzoate
ethyl butanoate
ethyl butyrate
ethyl caproate
ethyl capronate
ethyl carbamate
ethyl cellulose
ethyl chloride
ethyl ester
ethyl ether
ethyl gas
ethyl group
ethyl hexanoate
ethyl hexoate
ethyl hydride
ethyl malonate
ethyl mercaptan
ethyl methyl ketone
ethyl nitrate
ethyl nitrite
ethyl nitrite spirit
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethylidene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
eunuch flute
euynynms scale
eupatorium purple
eupeptic mien
euphoric mien
eur-
eureka red
euro-boreal
europaeo-
european plan
european red mite
eury-
eustachian tube
evacuation ambulance
evacuation hospital
evacuation plane
evacuation station
evade responsibility
evade the issue
evaluative criticism
evans-root
evaporated milk
evaporation gauge
evaporation pan
evaporation tank
evasion of responsibility
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
even-wayed
evener-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychmis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening’s calm and holy hour
evening’s close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blazing
ever-blessed
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizzling
ever-dropping
ever-durable
ever-during
ever-during dark
ever-duringness
ever-dying
ever-echoing
ever-endingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-glooming
ever-goading
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlasting fire
everlasting flower
 everlasting moment
 everlasting pea
 everlasting thorn
 everlasting torment
 every bit
 every bit a
 every day
 every hour
 every inch
 every inch a king
 every man Jack
 every man jack
 every moment
 every mother’s son
 every now and then
 every once in a while
 every one
 every one in his turn
 every other
 every so often
 every which way
 every whit
 every-way
 everybody and his uncle
 everybody’s fool
 everything being equal
 everything but the kitchen sink
 everything that is
 everywhere-dense
 evet e
 eviction clause
evidence in chief
evidence-proof
 evil child
 evil courses
 evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evil-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favouredly
evil-favouredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humored
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-mindedly
evil-mindedness
evil-mouthed
evil-ordered
evil-pieced
evil-qualityied
evil-savored
everil-shaped
everil-shapen
everil-smelling
everil-sounding
everil-sown
everil-spun
everil-starred
everil-taught
everil-tempered
everil-thewed
everil-thoughted
everil-tongued
everil-weaponed
everil-willed
everil-won
evoke a response
evoke from the dead
evoked potential
evolutionary change
evolve into
ewe bramble
ewe lamb
ewe teg
evere-daisy
evere-gowan
evere-neck
evere-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pede Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex propriate
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-librism
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  34914
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressu
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
exciter lamp
exciting current
excito-motory
exclaim against
exclamation mark
exclamation point
exclamatory adjective
exclamatory noun
exclude from
exclusion clause
exclusion principle
exclusive disjunction
exclusive jurisdiction
exclusive of
exclusive or
exclusive possession
exclusive representation
excruciating pain
excursion steamer
excursion ticket
excuse-me
excused absence
excusing the liberty
exdebito justitiae
exdebito natural
execute a
execute a maneuver
execute a will
execute by firing squad
executive agreement
executive arm
executive branch
executive committee
executive council
executive director
executive editor
executive function
executive hierarchy
executive office
executive officer
executive order
executive plane
executive privilege
executive role
executive secretary
executive session
executive veto
executor dative
exegi monumentum aere perennius
exemplary citizen
exemplary damages
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exeunt omnes
exh-
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exige facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
external logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenterer effect
expert at
expert consultant
expert in
expert in decor
expert rifleman
expert witness
experto credite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
exemplenary angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
exploit your position
exploratory examination
exploratory operation
exploratory ship
explorer tent
exploring element
explosion bomb
explosion engine
explosion insurance
explosion shot
explosion wave
explosion-proof
explosive D
explosive bullet
explosive charge
explosive d
explosive noise
explosive rivet
exponent proposition
exponential distribution
exponential horn
export bar
export credit
export declaration
export point
export reject
export tax
expose itself
expose to infamy
expose to view
expose yourself
expose yourself to
exposed nerve
exposed to
exposed to view
exposed-tube boiler
expository prose
expository scene
expository writing
exposure hazard
exposure index
exposure meter
express a wish for
express an opinion
express belief
express boiler
express buggy
express by words
express car
express delivery
express general agreement
express in words
express intention
express letter
express prejudice
express regret
express rifle
express sympathy for
express the belief
express train
express wagon
express your appreciation
expressed almond oil
expressed desire
expression mark
expression of ideas
description of situations
expressionistic abstraction
expressionistic abstractionist
expulsion fuse
expunge all doubt
exquisite manners
exsanguination transfusion
exsanguino transfusion
extend an invitation
extend credit
extend out
extend over
extend the right of fellowship
extend the right of friendship
extend throughout
extend to
extend to the side
extend to the sides
extended bond
extended complex plane
extended coverage
extended family
extended order
extended play
extended real number system
extended term insurance
extended-play
extending everywhere
extension bit
extension bolt
extension courses
extension field
extension ladder
extension lathe
extension of time
extension phone
extension rule
extension spring
extension table
extension-gap lathe
extensive knowledge
extensive study
extensor thrust
extenuating circumstances
exter-marriage
exterior angle
exterior ballistics
exterior paint
exteriorized protoplasm
exterminate with
external account
external acoustic meatus
external affairs
external angle
external appearance
external auditory meatus
external brake
external capsule
external carotid
external ear
external evidence
external frustration
external hemorrhoid
external iliac artery
external jugular vein
external loan
external relation
external respiration
external secretion
external-combustion
external-combustion engine
externally-quenched counter
extinction coefficient
extinction meter
extortionate demand
extortionate price
extra added attraction
extra cover
extra cover point
extra current
extra dash
extra dividend
extra edition
extra pay
extra point
extra sec
extra time
extra-
extra-acinous
extra-alimentary
extra-ammotic
extra-analogical
extra-anthropic
extra-articular
extra-artistic
extra-atmospheric
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewing
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinking
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catch
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye/popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eyeball inspection
eyeball to eyeball
eyeball-to-eyeball
eyeball-to-eyeball encounter
eyebrow pencil
eyeglass cloth
eyelet hole
eyelet punch
eyelet-hole
eyepiece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
factor of production
factor of safety
factor theorem
factorial stop system
factory belt
factory burden
factory committee
factory cost
factory district
factory farm
factory ledger
factory lumber
factory manager
factory ship
factory system
factory tar
factory town
factory worker
factory-new
facts and figures
facts of life
factual base
factual information
facultative referendum
faculty adviser
faculty members
faculty psychology
faculty theory
fad word
fade away
fade away from the memory
fade in
fade into the distance
fade like a dream
fade like a shadow
fade out
fade-in
fade-out
fade-proof
faded rose
faery-fair
faery-frail
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fair-fortunated
fair-fronted
fair-haered
fair-haered boy
fair-horned
fair-hued
fair-lead
fair-leader
fair-leading
fair-maid
fair-maned
fair-minded
fair-mindedness
fair-natured
fair-reputed
fair-sized
fair-skinned
fair-sounding
fair-spoken
fair-spokenness
fair-stitch
fair-stitcher
fair-tongued
fair-trade
fair-trade agreement
fair-trade law
fair-trade price
fair-traded
fair-trader
fair-trading
fair-tressed
fair-visaged
fair-water cap
fair-weather
fair-weather cumulus
fair-weather friend
fair-weather sailor
fairbody draft
faire les yeux doux
fairing box
fairly well
fairness doctrine
fairwater cap
fairwater cone
fairwater sleeve
fairy arrow
fairy bell
fairy bird
fairy bluebird
fairy book
fairy butter
fairy candle
fairy cap
fairy circle
fairy club
fairy court
fairy creeper
fairy cup
fairy cycle
fairy fan
fairy finger
fairy flax
fairy gift
fairy glove
fairy godmother
fairy grass
fairy green
fairy haunt
fairy hillock
fairy king
fairy lamp
fairy lily
fairy lint
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fairy wand
fairy water lily
fairy woman
fairy-born
fairy-ring
fairy-ring mushroom
fairy-ring spot
fairy-tale
fait accompli
faites vos jeux
faith cure
faith curer
faith healer
faith healing
faith of our fathers
faith-breaking
faith-confirming
faith-curist
faith-infringing
faith-keeping
faithful copy
faithful friend
faithful love
faithful servant
faithful translation
faits accomplis
fake book
fake buyer
fake out
fake up
faker-out
faking box
fal la
fal-lal
fal-lalery
fal-lalish
fal-lalishly
falcon-beaked
falcon-eyed
falcon-gentle
fald silver
fall a cropper
fall a victim to
fall aboard
fall about
fall across
fall afoul of
fall again into
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on
fall back to
fall back to prepared positions
fall back upon
fall behind
fall behindhand
fall between two stools
fall block
fall by the wayside
fall chronometer
fall dandelion
fall dead
fall down
fall down before
fall down dead
fall down on the job
fall down on your knees
fall duck
fall due
fall flat
fall flat as a pancake
fall flat on your ass
fall flat on your face
fall flower
fall for
fall foul
fall foul of
fall from grace
fall from the lips
fall from the mouth
fall from your high estate
fall front
fall grape
fall guy
fall head and ears in love
fall head over heels in love
fall headlong
fall herring
fall in
fall in a faint
fall in line
fall in love
fall in price
fall in the way of
fall in together
fall in with
fall into
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
fall-in
fall-off
fall-out
fall-plow
fall-sow
fall-trap
fallen angel
fallen arch
fallen countenance
fallen from grace
fallen humanity
fallen nature
fallen state
fallen woman
falling action
falling back
falling band
falling barometer
falling diphthong
falling door
falling down and worshiping
falling glass
falling home
falling leaf
falling loosely
falling off
falling rhythm
falling short
falling shy
falling sickness
falling star
falling terminal
falling-away
falling-ball clock
falling-off
falling-out
falling-outs
fallings-out
fallopian tube
fallout shelter
fallow chat
fallow deer
fallow finch
fallow mind
fallow-deer
false Jerusalem cherry
false Solomon's-seal
false acacia
false air
false alarm
false aloe
false appearance
false arrest
false bedding
false beechdrops
false belief
false bottom
false name
false nettle
false oat
false pains
false piety
false pile
false position
false pretences
false pretense
false pretenses
false pretension
false prosconium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
false-card
false-dealing
false-derived
false-eyed
false-face
false-face society
false-faced
false-fingered
false-fronted
family court
family doctor
family expense
family fare
family favor
family grouping
family homestead
family income policy
family jewels
family likeness
family living
family maintenance policy
family man
family meeting
family name
family of curves
family party
family physician
family plan
family planning
family relationship
family reunion
family romance
family room
family size
family skeleton
family style
family tie
family training
family tree
family wage
family way
family-conscious
family-fare plan
famine bread
famine fever
famine price
famous person
famous persons
fan Fink truss
fan belt
fan blade
fan blower
fan brake
fan club
fan consonant
fan coral
fan cricket
fan dance
fan dancer
fan delta
fan fitter
fan guard
fan heater
fan jet
fan letter
fan magazine
fan maidenhair
fan mail
fan maker
fan marker
fan mill
fan out
fan painter
fan palm
fan pulley
fan pump
fan roof
fan scale
fan shell
fan system
fan tan
fan the embers
fan the fire
fan the flame
fan tracery
fan training
fan tree
fan truss
fan vault
fan vaulting
fan wheel
fan window
fan worm
fan-back chair
fan-bearing
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
fancy-borne
fancy-bred
fancy-built
fancy-caught
fancy-dress ball
fancy-driven
fancy-fed
fancy-feeding
fancy-formed
fancy-framed
fancy-free
fancy-guided
fancy-led
fancy-loose
fancy-raised
fancy-shaped
fancy-stirring
fancy-struck
fancy-stung
fancy-weaving
fancy-woven
fancy-wrought
fandango bird
fang bolt
fanleaf palm
fanning machine
fanning mill
fanning out
fanny adams
fantail joint
fantail stern
fantasize about
fantastic notion
far afield
far ahead
far and away
far and near
far and wide
far away
far be it from me
far cry
far from it
far goer
far gone
far gone on
far horizon
far off
far on
far other
far out
far past
far piece
far point
far seer
far traveler
far-about
far-advanced
far-aloft
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distant
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-looming
far-northern
far-off
far-offness
far-out
far-parted
far-passing
far-point
far-projecting
far-ranging
far-reaching
far-reachingness
far-removed
far-resounding
far-seeing
far-seen
far-shooting
far-sight
far-sighted
far-sought
far-sounding
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fathead minnow
father abbot
father christmas
father complex
father confessor
father family
father figure
father fixation
father image
father in Christ
father jesuit
father lasher
father longlegs
father love
father of the chapel
father right
father rule
father sib
father superior
father surrogate
father symbol
father upon
father's day
father-confessor
father-in-law
father-lasher
father-long-legs
fathers-in-law
fathom-deep
fatigue call
fatigue cap
fatigue clothes
fatigue curve
fatigue disease
fatigue dress
fatigue duty
fatigue life
fatigue limit
fatigue party
fatigue ratio
fatten on
fatten up
fatten upon
fattening grass
fatti maschii
fatty acid
fatty degeneration
fatty heart
fatty oil
fatty tumor
faucet joint
fault bar
fault block
fault breccia
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
federal intermediate credit bank
federal land bank
federal medicine
federal prison
federal reserve bank
federal tax
federated church
fee farm
fee farmer
fee fief
fee grief
fee position
fee simple
fee simple absolute
fee simple conditional
fee simple defeasible
fee simple determinable
fee splitting
fee tail
fee-farm
fee-faw-fum
fee-simple
fee-splitter
fee-splitting
fee-tail
feeble person
feeble-bodied
feeble-eyed
feeble-lunged
feeble-minded
feeble-mindedly
feeble-mindedness
feeble-voiced
feeble-winged
feeble-wit
feed bag
feed boiler
feed case
feed cooker
feed crusher
feed cutter
feed gear
feed grinder
feed guide
feed hand
feed heater
feed heating
feed hopper
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeding market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow american
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
felo de se
felo-de-se
felon grass
felon herb
felones-de-se
felony murder
felos-de-se
felsite-porphyry
felt conditioner
felt cutter
felt dauber
felt drier
felt fern
fen cress
fen duck
fen farmer
fen farming
fen fever
fen fire
fen grape
fen groundsel
fen lentil
fen orchis
fen rue
fen skate
fen skater
fen skating
fen thrush
fen-born
fen-bred
fen-sucked
fen-ting
fence arbor
fence balk
fence builder
fence in
fence lizard
fence maker
fence month
fence off
fence post
fence puller
fence rail
fence season
fence splicer
fence stretcher
fence tightener
fence-off
fence-sitter
fence-sitting
fence-straddler
fence-straddling
fenced-in
fencer's mask
fencing foils
fencing mask
fencing master
fencing match
fencing school
fencing stick
fencing-in
fend for yourself
fend off
fender bar
fender beam
fender bolt
fender boom
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
fern ally
fern asparagus
fern ball
fern bracken
fern bush
fern clubmoss
fern covert
fern cycad
fern green
fern hook
fern meadowbur
fern moss
fern owl
fern palm
fern preserver
fern scale
fern scrub
fern seed
fern tree
fern weevil
fern-clad
ferncrowned
fern-fringed
fern-leaved
fern-owl
fern-seed
fern-thatched
ferret badger
ferret out
ferret-badger
ferret-eyed
ferretto zone
ferri-
ferric ammonium oxalate
ferric chloride
ferric dimethyldithiocarbamate
ferric oxide
ferric sodium oxalate
ferricyanic acid
ferris wheel
ferrite-rod aerial
ferro-
ferro-carbon-titanium
ferro-concrete
ferro-uranium
ferrocyanic acid
ferroso-
ferrotype tin
ferrous oxide
ferrous sulfate
ferrous sulphate
ferruginous duck
ferry bell
ferry bridge
ferry captain
ferry car
ferry craft
ferry incline
ferry master
ferry pole
ferry rack
ferry rocket
ferry slip
ferry steamer
ferry ticket
ferry warden
ferry-boat
fertile imagination
fertile material
fertile mind
fertile-flowered
fertile-fresh
fertile-headed
fertility cult
fertility god
fertility goddess
fertility spirit
fertility symbol
fertilization cone
fertilization tube
fertilizer ammonia
fertilizer chemical
fertilizer crusher
fertilizer distributor
fertilizer divider
fertilizer drill
fertilizer hand
fertilizer maker
fertilizer making
fertilizer meal
fertilizer mill
fertilizer mixer
fertilizer phosphate
fertilizer plant
fertilizer press
fertilizer sampler
fertilizer spreader
fertilizer tank
fertilizer-crushing
fervent hope
fervent imagination
fescue grass
fess point
fess up
fesse point
festal board
festina lente
festival day
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetch-candle
fetch-light
fetched-on
fetching-up
fete champetre
fete day
fete-champetre
cetti-
fetid air
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-morte
feux d'artifice
feux de joie
fever bark
fever bird
fever blister
fever chart
fever curve
fever flash
fever fly
fever heat
fever of excitement
fever pill
fever pitch
fever plant
fever reducer
fever sore
fever therapy
fever thermometer
fever treatment
fever tree
fever twig
fever ward
fever-cooling
fever-destroying
fever-haunted
fever-lurden
fever-maddened
fever-reducer
fever-ridden
fever-shaken
fever-sick
fever-smitten
fever-stricken
fever-troubled
fever-warm
fever-weakened
few and far between
few, a
few-acred
few-celled
few-flowered
few-flowered oat grass
few-fruited
few-seeded
few-toothed
fiat justitia ruat caelum
fiat lux
fiat money
fibble-fable
fiber boilerman
fiber bundle
fiber carder
fiber comber
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fibr-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fickle-minded
fickle-mindedly
fickle-mindedness
fiction of the mind
fictional form
fictitious name
fictitious person
fid hole
fiddle away
fiddle back
fiddle beetle
fiddle block
fiddle bow
fiddle brace back
fiddle case
fiddle dock
fiddle flower
fiddle head
fiddle maker
fiddle making
fiddle pattern
fiddle with
fiddle-back
fiddle-brained
fiddle-de-dee
fiddle-faced
fiddle-faddle
fiddle-faddled
fiddle-faddler
fiddle-faddling
fiddle-flanked
fiddle-head
fiddle-lipped
fiddle-neck
fiddle-scrapping
fiddle-shaped
fiddle-string
fiddle-waist
fiddleback chasuble
fiddler crab
fiddler duck
fiddley house
fiddley opening
fidei-commissum
fideicommissary heir
fidelity bond
fidelity insurance
fidget with
fiduciary bond
fiduciary heir
fiduciary issue
fidus Achates
fie-fie
field armor
field army
field arrow
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodder
field dog
field driver
field duck
field emission
field event
field fortification
field frame
field garlic
field glass
field glasses
field goal
field grade
field gray
field gromwell
field guidance
field guide
field gun
field hand
field hockey
field holler
field horsetail
field hospital
field house
field ice
field intensity
field ion microscope
field jacket
field judge
field kale
field kitchen
field lark
field larkspur
field lens
field lily
field line
field madder
field magnet
field maneuver
field marigold
field mark
field marshal
field martin
field master
field meeting
field milkwort
field mint
field mouse
field mushroom
field music
field nigelweed
field night
field oak
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field preaching
field probable error
field range
field ration
field rations
field rivet
field rush
field salad
field scabious
field scorpion grass
field service
field shoes
field soapwort
field soapwort
field sorrel
field sorrel
field southernwood
field spaniel
field sparrow
field speedwell
field spider
field spirit
field spool
field sports
field staff
field station
field stop
field strength
field system
field telegraph
field telephone
field tent
field theory
field thistle
field thyme
field tiller
field titling
field train
field training
field trial
field trip
field vole
field winding
field work
field wormwood
field woundwort
field yam-root
field-bed
field-book
field-control converter
field-controlled
field-conventicle
field-conventicle
field-conventicler
field-cornet
field-cornetcy
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
field-marsh
field-meeting
field-strength meter
field-strip
field-striped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
fielder's choice
fielding average
fields of Aalu
fiend from hell
fierce temper
fierce-eyed
fierce-faced
fierce-looking
fierce-minded
fierce-natured
fieri facias
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthing
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinkling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fifth-column
fifth-column activity
fifty cents
fifty percent
fifty-acre
fifty-dollar bill
fifty-eight
fifty-eighth
fifty-fifth
fifty-fifty
fifty-first
fifty-five
fifty-four
fifty-fourth
fifty-mile
fifty-nine
fifty-ninth
fifty-one
fifty-second
fifty-seven
fifty-seventh
fifty-six
fifty-sixth
fifty-third
fifty-three
fifty-two
fifty-year
fiftyty-fifty
fig banana
fig bar
fig bean
fig dust
fig faun
fig finch
fig insect
fig leaf
fig marigold
fig moth
fig out
fig parrot
fig paste
fig soap
fig up
fig wart
fig wasp
fig wax
fig-bird
fig-leaf
fig-shaped
fig-tree
fig-tree wax
fig-wort
figaro sauce
fige de froid
fight a delaying action
fight a duel
fight a holding action
fight against
fight fire with fire
fight for
fight hand-to-hand
fight it out
fight like devils
fight off
fight over
fight shy
fight shy of
fight the good fight
fight the good fight for
fight to the death
fight to the last ditch
fight tooth and nail
fight with
fight with windmills
fight your battles over again
fight your way
fight-off
fighter pilot
fighter-bomber
fighter-interceptor
fighting chair
fighting chance
fighting cock
fighting fish
fighting force
fighting machine
fighting mad
fighting man
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
figure caster
figure dance
figure dancer
figure eight
figure in
figure of comparison
figure of eight
figure of fun
figure of speech
filth-fed
filth-sodden
filthy humor
filthy language
filthy lucre
filthy person
filthy place
filthy rich
filthy weed
filthy-handed
filum aquae
fin boom
fin colter
fin cutter
fin de siecle
fin fold
fin keel
fin ray
fin whale
fin-backed
fin-fold theory
fin-footed
fin-shaped
fin-spined
fin-stabilized rocket
fin-tailed
fin-toed
fin-winged
final cause
final draft
final examination
final extremity
final hour
final instructions
final lot
final notice
final offer
final proposal
final result
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
find time
find vent
find words to express
find your
find your account in
find your advantage in
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered
fine-toned
fine-tongued
fine-tooth
fine-tooth comb
fine-tooth-comb
fine-toothcomb
fine-toothed
fine-toothed comb
fine-tricked
fine-wrought
fineness of grain
fineness ratio
finer feelings
finery furnace
finery hearth
fines herbes
finger alphabet
finger bar
finger board
finger bowl
finger brush
finger clamp
finger coral
finger cutting
finger cymbals
finger exercise
finger fern
finger food
finger fracture
finger gate
finger gauge
finger grass
finger grip
finger guard
finger herb
finger hole
finger joint
finger lake
finger lime
finger man
finger mark
finger nut
finger of death
finger or two
finger paint
finger painter
finger painting
finger patch
finger pillory
finger plate
finger post
finger reading
finger ring
finger shell
finger sponge
finger steel
finger tight
finger wave
finger with
finger's breadth
finger's width
finger-ache
finger-and-toe
finger-comb
finger-comb grass
finger-cone
finger-cone pine
finger-cut
finger-end
finger-foxed
finger-marked
finger-paint
finger-pointing
finger-post
finger-shaped
finger-stall
finger-stone
fingers all thumbs
fingertip caress
fingertip coat
fingle-fangle
finis coronat opus
finish in front
finish off
finish up
finish-bore
finish-cut
finish-form
finish-grind
finish-machine
finish-mill
finish-plane
finish-ream
finish-shape
finish-stock
finish-stock change
finish-turn
finished up
finished version
finisher card
finishing change
finishing chisel
finishing nail
finishing school
finishing stove
finishing stroke
finishing tap
finishing touch
finite intersection property
finite number
finite verb
finite-dimensional
finitely additive function
fink out
finnan haddie
finnan haddock
finno-ugric
fippenny bit
fippenny piece
fipple flute
fipple pipe
fir apple
fir ball
fir balsam
fir club moss
fir cone
fir green
fir moss
fir needle
fir parrot
fir pine
fir rape
fir rope
fir wood
fir wool
fir-bordered
fir-built
fir-crested
fir-scented
fir-topped
fir-tree
fire a salute
fire a shot at
fire a volley
fire adjuster
fire alarm
fire altar
fire and brimstone
fire and fury
fire ant
fire apparatus
fire appliance
fire department
fire direction
fire division wall
fire door
fire drill
fire drilling
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilding
fire glass
fire gong
fire grass
fire grate
fire hangbird
fire hat
fire hazard
fire hearth
fire hook
fire hose
fire hydrant
fire inspector
fire insurance
fire iron
fire irons
fire kiln
fire ladder
fire lane
fire lily
fire line
fire loss
fire main
fire maker
fire making
fire mark
fire marshal
fire mist
fire net
fire of demolition
fire of genius
fire off
fire office
fire opal
fire pail
fire patrol
fire patrolman
fire pike
fire pink
fire pit
fire plant
fire point
fire police
fire polishing
fire pot
fire power
fire prevention
fire quencher
fire raft
fire raid
fire raiser
fire red
fire red toner
fire reel
fire resistance
fire retardant
fire retarder
fire risk
fire room
fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
fire scarlet
fire screen
fire set
fire setting
fire ship
fire shovel
fire shutter
fire slash
fire spirit
fire station
fire step
fire stick
fire stink
fire stop
fire storm
fire support
fire swab
fire tactics
fire temple
fire test
fire the blood
fire thorn
fire tongs
fire tower
fire tree
fire trench
fire tube
fire underwriter
fire up
fire upon
fire walk
fire walking
fire wall
fire warden
fire watcher
fire weather
fire window
fire worker
fire worship
fire worshiper
fire your imagination
fire-
fire-and-brimstone
fire-angry
fire-arm
fire-backed pheasant
fire-ball
fire-baptized
fire-bearing
fire-bellied
fire-bird
fire-boot
fire-born
fire-box
fire-brand
fire-breathing
fire-breeding
fire-burning
fire-burnt
fire-chaser
fire-clad
fire-cracked
fire-crested
fire-cross
fire-crowned
fire-cure
fire-cured
fire-curing
fire-damp
fire-darting
fire-detecting
fire-drake
fire-eater
fire-eating
fire-endurance
fire-endurance test
fire-engine
fire-exit bolt
fire-extinguisher
fire-extinguishing
fire-eyed
fire-fang
fire-flaught
fire-float
fire-flowing
fire-fly
fire-foaming
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire-hoofed
fire-hook
fire-hot
fire-hunt
fire-hunting
fire-iron
fire-leaves
fire-light
fire-lighted
fire-lilies
fire-lily
fire-lipped
fire-marked
fire-master
fire-mouged
fire-new
fire-pan
fire-pitted
fire-place
fire-plow
fire-polish
fire-pot
fire-proof
fire-protection engineer
fire-quenching
fire-raiser
fire-raising
fire-red
fire-resistant
fire-resistant material
fire-resisting
fire-resisting material
fire-resistive
fire-resistive material
fire-retardant
fire-retardant material
fire-retarded
fire-ring
fire-robed
fire-safeness
fire-scarred
fire-scatched
fire-screen
fire-seamed
fire-ship
fire-souled
fire-spirited
fire-spitting
fire-sprinkling
fire-stone
fire-strong
fire-swart
fire-swift
fire-tailed
fire-tight
fire-tube boiler
fire-warmed
fire-wheeled
fire-winged
fire-work
fire-worker
fireburn bush
firecracker flower
fireless cooker
fireless heater
fireplace fitter
fireproof material
fireworks rocket
firing area
firing battery
firing charge
firing data
firing glass
firing iron
firing line
firing order
firing party
firing pin
firing ring
firing squad
firing step
firing table
firing test
firing tread
firing tube
firm as Gibraltar
firm belief
firm friendship
firm ground
firm hand
firm hold
firm price
firm resolve
firm up
firm-based
firm-braced
firm-chinned
firm-compacted
firm-footed
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first derivative
first derived curve
first division
first draft
first edition
first estate
first family
first floor
first flush of the morning
first fruits
first glance
first hand
first harmonic
first impression
first inning
first intention
first lady
first lap
first law of motion
first law of thermodynamics
first lieutenant
first light
first line
first line of battle
first line of defense
first main track
first mate
first mortgage
first mortgage bond
first motion
first move
first name
first night
first of all
first off
first offender
first officer
first option
first or last
first order
first paper
first papers
first person
first philosophy
first place
first position
first post
first principle
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first water
first-aid
first-aider
first-begot
first-begotten
first-born
first-bred
first-built
first-cause argument
first-chop
first-class
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endeavoring
first-expressed
first-famed
first-floor
first-foot
first-footer
first-formed
first-found
first-framed
first-fruit
first-gendered
first-generation
first-gotten
first-grown
first-hand
first-in
first-in first-out
first-invented
first-known
first-line
first-loved
first-made
first-mentioned
first-mining
first-mortgage
first-mortgage bond
first-name
first-named
first-night
first-nighter
first-order reaction
first-out
first-page
first-past-the-post
first-preferred
first-rate
first-rately
first-rateness
first-rater
first-ripe
first-run
first-seen
first-strike capacity
first-string
first-told
first-written
fiscal agent
fiscal period
fiscal year
fise dog
fish and chips
fish ball
fish beam
fish begonia
fish belly
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fish-eating
fish-eating bird
fish-eye lens
fish-eyed
fish-fag
fish-fed
fish-feeding
fish-flaking
fish-gig
fish-god
fish-goddess
fish-hatching
fish-hook
fish-producing
fish-scale
fish-scaling
fish-selling
fish-shaped
fish-skin
fish-slit
fish-tail
fishbone thistle
fishbone tree
fisher-cat
fisherman's bend
fisherman's reef
fisherman's ring
fisherman's staysail
fisherman's sweater
fishery salt
fisheye lens
fishhook cactus
fishhook money
fishing banks
fishing boat
fishing breeze
fishing cat
fishing club
fishing craft
fishing dory
fishing duck
fishing expedition
fishing fleet
fishing float
fishing gear
fishing ground
fishing hook
fishing license
fishing line
fishing net
fishing pole
fishing question
fishing reel
fishing rod
fishing schooner
fishing smack
fishing spear
fishing tackle
fishing vessel
fishing worm
fishskin disease
fishtail bit
fishtail burner
fishtail cutter
fishtail down
fishtail drapery
fishtail landing
fishtail palm
fishtail wind
fishtail-shaped
fishy transaction
fissi-
fission alga
fission bomb
fission fungus
fission particles
fission products
fission reaction
fission reactor
fission-fusion bomb
fissionable material
fissure of Rolando
fissure of Sylvius
fissure vein
fist hatchet
fist law
fist mate
fistulous withers
fit and fine
fit as a fiddle
fit for
fit for a gourmet
fit for a king
fit for sea
fit for society
fit for the dust hole
fit for the junk yard
fit for the wastepaper basket
fit in
fit of abstraction
fit of anger
fit of crying
fit of laughter
fit of temper
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o'clock shadow
five-o'clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabell-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrante delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flake figure
flake manna
flake off
flake out
flake stand
flake tragacanth
flake white
flaked-out
flaky pastry
flamboyant
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flame up
flame vine
flame-breasted
flame-breathing
flame-colored
flame-colour
flame-cut
flame-darting
flame-devoted
flame-eyed
flame-faced
flame-feathered
flame-fusion process
flame-haired
flame-of-the-forest
flame-of-the-woods
flame-out
flame-red
flame-robbed
flame-shaped
flame-snorting
flame-sparkling
flame-thrower
flame-tight
flame-tipped
flame-tree
flame-uplifted
flame-winged
flames-of-the-woods
flaming torch
flamingo flower
flamingo-flower
flammable material
flan ring
flange bushing
flange coupling
flange joint
flange nut
flange plate
flange pulley
flange rail
flange steel
flange tile
flange union
flank attack
flank company
flank defense
flank file
flank fire
flank guard
flank march
flank movement
flank patrol
flank speed
flank steak
flanker back
flanking angle
flannel cake
flannel flower
flannel moth
flannel plant
flannelmouth catfish
flannelmouth sucker
flap door
flap hinge
flap the memory
flap tile
flap valve
flap-dragon
flap-eared
flapper dock
flapper skate
flapper-bag
flapping angle
flare light
flare out
flare path
flare rocket
flare star
flare up
flare-out
flare-up
flare-up light
flash across one's mind
flash across the mind
flash back
flash boiler
flash bulb
flash burn
flash butt welding
flash camera
flash card
flash color
flash fire
flash flood
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
flashed brick
flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat-soled
flat-sour
flat-toothed
flat-top
flat-topped
flat-turret lathe
flat-visaged
flat-waisted
flat-ways
flat-woven
flatbed cylinder press
flatbed press
flathead cat
flathead catfish
flatheaded apple tree borer
flatheaded borer
flattail mullet
flatten in
flatten out
flatten yourself
flattened-strand rope
flattening oven
flattening stone
flatter the palate
flatter yourself
flatter-blind
flattering remark
flattering tongue
flatting furnace
flatting mill
flatting oil
flattop antenna
flatuous melancholia
flatwork ironer
flavo-
flavor control
flavoring extract
flaw in an argument
flax bellflower
flax blue
flax brake
flax buncher
flax bundler
flax canker
flax comb
flax dodder
flax dresser
flax family
flax hackler
flax lily
flax olive
flax plant
flax retter
flax ripple
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
flax-colored
flax-flower blue
flax-leaved
flax-polled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
fleet-footed
fleeting impulse
flench-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
flesh show
flesh side
flesh tint
flesh tone
flesh worm
flesh wound
flesh-bearing
flesh-color
flesh-colored
flesh-colour
flesh-consuming
flesh-devouring
flesh-eater
flesh-eating
flesh-fallen
flesh-fly
flesh-pink
flesh-pot
fleshing knife
fleshly delight
fleshly lust
fleshly-minded
fleshpots of Egypt
fleshly fruit
fleshly-fruited
fleur de luce
fleur de lys
fleur-de-lis
fleur-de-lys
fleurs-de-lis
fleurs-de-lys
fleury counterfleury
flex point
flex wing
flex your muscles
flexible shaft
flexible supports
flexible-shaft drill
flexuoso-
flexure plate scale
flick knife
flick of the eyelash
flick you on the raw
flicker of an eye
flicker photometer
flicker photometry
flickering flame
flickering light
flier-out
flight arrow
flight attendant
flight bag
flight control
flight crew
flight deck
flight engineer
flight feather
flight feathers
flight formation
flight indicator
flight instrument
flight leader
flight lieutenant
flight line
flight muscle
flight nurse
flight of fancy
flight of ideas
flight of steps
flight of time
flight of wit
flight officer
flight operation
flight path
flight path angle
flight pay
flight plan
flight reaction
flight recorder
flight shooter
flight shooting
flight simulator
flight song
flight status
flight strip
flight surgeon
flight test
flight tester
flight training
flight-shooting
flight-shot
flight-test
flightless bird
flim-flam
flimflam man
flincher-mouse
flinders grass
fling at
fling down
fling down the gage
fling down the gauntlet
fling down the glove
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
flipperty-flopperty
flippity-flop
flirt with
flirt with death
flirt with the idea
flirt-gill
flirtation-proof
flirting with death
flitch beam
flitch girder
flitch plate
flitter-mouse
float a bond issue
float a loan
float bowl
float bridge
float builder
float carburetor
float chamber
float copper
float fescue
float fishing
float foxtail
float grass
float high
float in a sea of doubt
float in space
float in the air
float key
float net
float on your back
float ore
float plane
float pump
float road
float seaplane
float stick
float switch
float tank
float trap
float up
float valve
float whey
float with the current
float with the stream
float work
float-boat
float-cut
float-cut file
float-feed
float-feed carburetor
float-iron
float-stone
floating anchor
floating assets
floating battery
floating bridge
floating capital
floating charge
floating debt
floating dock
floating dry dock
floating drydock
floating fescue
flood plain
flood pounds in after trim
flood the market
flood the market with
flood the tank
flood the tanks
flood tide
flood with light
flood-gate
flood-hatch
flood-tide
floodable length
flooded with light
floodlight projector
floor arch
floor beam
floor board
floor boarding
floor broker
floor chisel
floor clamp
floor cleaner
floor cleaning
floor covering
floor dresser
floor dressing
floor enamel
floor finish
floor furnace
floor hanger
floor joist
floor knob
floor lamp
floor leader
floor line
floor manager
floor mat
floor model
floor mop
floor oil
floor oiler
floor paint
floor pit
floor plan
floor plate
floor play
floor plug
floor pocket
flori-
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss silk
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour miller
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flower cup
flower fence
flower fly
flower garden
flower gardening
flower girl
flower grower
flower head
flower maker
flower making
flower nymph
flower of age
flower of life
flower outbloom
flower painter
flower painting
flower paintress
flower part
flower piece
flower power
flower pride
flower scissors
flower seller
flower shop
flower show
flower spike
flower stalk
flower time
flower tree
flower-bearing
flower-bespangled
flower-besprinkled
flower-breeding
flower-crowned
flower-cup fern
flower-de-luce
flower-decked
flower-embroidered
flower-enameled
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
flowery-kirtled
flowery-mantled
flowing locks
flowing periods
flowing stream
flowing tongue
flowing toward
flowing tresses
flowing-robed
flucti-
fluctuation-proof
flue bridge
flue cleaner
flue pipe
flue plate
flue stop
flue stopper
flue surface
flue-cure
flue-cured
flue-curing
fluent tongue
fluff your lines
fluff-gib
fluffy-haired
fluffy-minded
fluid assets
fluid clutch
fluid compression
fluid coupling
fluid die
fluid drachm
fluid dram
fluid drive
fluid dynamics
fluid extract
fluid flywheel
fluid friction
fluid mechanics
fluid motion
fluid movement
fluid operations
fluid ounce
fluid pressure
fluid-compressed
flump down
flunk out
flu-
fluoboric acid
fluophosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush gir
t flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flute glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aonian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
flying cadet
flying circus
flying classroom
flying colors
flying colours
flying column
flying crow's nest
flying deck
flying doctor
flying dragon
flying dutchman
flying field
flying fish
flying flame
flying fortress
flying fox
flying frog
flying gangway
flying gurnard
flying horses
flying jib
flying jib boom
flying jib guy
flying jib martingale
flying jib stay
flying jump
flying kite
flying kites
flying lemur
flying lessons
flying lizard
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
flying phalanger
flying platform
flying range
flying ring
flying robin
flying rumor
flying sap
flying saucer
flying shear
flying skysail
flying speed
flying spot
flying squad
flying squadron
flying squirrel
flying start
flying tackle
flying tank
flying tanker
flying torpedo
flying wing
flywheel effect
flywheel efficiency
flywheel-explosion
foam at the mouth
foam extinguisher
foam glass
foam rubber
foam-beat
foam-born
foam-crested
foam-flanked
foam-flecked
foam-girt
foam-lit
foam-painted
foam-rubber mattress
foam-white
foaming at the mouth
fob chain
fob off
fob on
focal distance
focal epilepsy
focal infection
focal inflammation
focal length
focal plane
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
foist in
foist on
foist yourself upon
fold dike
fold in
fold over
fold soke
fold to the heart
fold up
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
folk mind
folk motif
folk music
folk myth
folk nation
folk play
folk poetry
folk psychologist
folk psychology
folk rock
folk school
folk singer
folk singing
folk society
folk song
folk songs
folk speech
folk state
folk story
folk tale
folk theater
folk tune
folk weave
folk-dancer
folk-eticological
folk-lore
folk-music festival
folk-rock
folk-rock singer
folk-sing
follicle mite
follicle-stimulating hormone
follow a clew
follow a clue
follow a course
follow a trade
follow advice
follow after
follow as a matter of course
follow as an occupation
follow at heel
follow block
follow board
follow close upon
follow dies
follow from
follow implicitly
follow in a series
follow in the footsteps of
follow in the steps of
follow in the trail of
follow in the wake of
follow in your footsteps
follow like sheep
follow on
follow on the heels of
follow out
follow peace with all men
follow protocol
follow rest
follow shot
follow strong drink
follow suit
follow the
follow the beam
follow the beaten path
follow the book
follow the crowd
follow the example of
follow the fashion
follow the hounds
follow the lead of
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
follow the trail of
follow the trail to
follow through
follow to a conclusion
follow up
follow up an inquiry
follow up the attack
follow your nose
follow-focus shot
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
fool-bold
fool-born
fool-frequented
fool-frighting
fool-happy
fool-hasty
fool-headed
fool-heady
fool-large
fool-proof
fooling around
foolish act
foolish guillemot
foolish thing
foolish-bold
foolish-looking
foolish-wise
foolish-witty
foolscap octavo
foolscap quarto
foot accelerator
foot at
foot base
foot bath
foot bellows
foot bone
foot brake
foot by foot
foot candle
foot carpet
foot correctionist
foot cushion
foot dangle
foot dirt
foot doctor
foot drop
foot fault
foot for foot
foot front
foot guard
foot iron
foot it
foot-dragger
foot-dragging
foot-faring
foot-firm
foot-free
foot-grain
foot-grain per second
foot-guard
foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
foot-licking
foot-loose
foot-mantle
foot-mark
foot-note
foot-pale
foot-payh
foot-pound
foot-pound-second
foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen's gallery
footplate man
footstep bearing
footwear merchant
for FC
for God's sake
for a certainty
for a consideration
for a coon's age
for a dog's age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for professional services
for public consumption
for real
for rent
for sale
for services rendered
for short
for show
for some reason
for sport
for sure
for that
for that cause
for that reason
for the asking
for the best
for the better
for the birds
for the cause that
for the devil of it
for the duration
for the fun of it
for the heck of it
for the hell of it
for the life of you
for the love of
for the meantime
for the moment
for the most part
for the nonce
for the people
for the period of
for the purpose of
for the reason that
for the record
for the sake of
for the term of your days
for the time
for the time being
for this cause
for this occasion
for this reason
for two
for want of
for what reason
for whatever reason
for which
for which reason
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
fore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-
fore-adapt
fore-age
fore-alleged
fore-and-aft
fore-and-aft axis
fore-and-aft rig
fore-and-aft rigged
fore-and-aft sail
fore-and-aft schooner
fore-and-aft tackle
fore-and-aft-rigged
fore-and-after
fore-appoint
fore-axle
fore-being
fore-cabin
fore-check
fore-cited
fore-court
fore-dated
fore-deck
fore-edge
fore-edge painting
fore-elder
fore-elders
fore-end
fore-exercise
fore-foot
fore-game
fore-glide
fore-gut
fore-hammer
fore-handed
fore-hearth
fore-judge
fore-lie
fore-mean
fore-mention
fore-notice
fore-oath
fore-part
fore-piece
fore-possess
fore-purpose
fore-quote
fore-rank
fore-reach
fore-read
fore-recited
fore-rider
fore-run
fore-sail
fore-say
fore-set beds
fore-sheet
fore-skysail
fore-skysail backstay
fore-skysail brace
fore-skysail lift
fore-skysail mast
fore-skysail shroud
fore-skysail stay
fore-skysail yard
fore-staff
fore-stage
fore-stay
fore-stick
fore-tack
fore-tooth
fore-topgallant
fore-topgallant backstay
fore-topgallant brace
fore-topgallant lift
fore-topgallant mast
fore-topgallant shroud
fore-topgallant stay
fore-topgallant studding sail
fore-topgallant yard
fore-topmast
fore-topmast backstay
fore-topmast stay
fore-topmast staysail
fore-topmast staysail stay
fore-topmast studding sail
fore-topmast-studding-sail boom
fore-topsail
fore-topsail lift
fore-topsail yard
fore-trysail gaff
fore-trysail peak halyard
fore-trysail vang
fore-uard
fore-vouched
fore-wind
fore-wit
forearm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forecastle scuttle
forecastle watch
foredoomed hope
foregone conclusion
foreground detail
forehand shaft
forehand shooting
foreign accent
foreign affairs
foreign aid
foreign bill
foreign body
foreign correspondent
foreign devil
foreign element
foreign exchange
foreign influx
foreign intruder
foreign intrusion
foreign legion
foreign loan
foreign minister
foreign ministry
foreign mission
foreign money
foreign office
foreign policy
foreign secretary
foreign securities
foreign service
foreign service officer
foreign threat
foreign-aid
foreign-appearing
foreign-born
foreign-bred
foreign-built
foreign-flag
foreign-language dictionary
foreign-language study
foreign-looking
foreign-made
foreign-manned
foreign-owned
foreign-speaking
forelock hook
foreman of the jury
forenoon watch
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forging press
forgive and forget
fork beam
fork cross
fork cutler
fork forger
fork grinder
fork hafter
fork lightning
fork luncheon
fork maker
fork molder
fork out
fork over
fork splitter
fork truck
fork-carving
fork-end
fork-filled
fork-head
fork-lift truck
fork-pronged
fork-ribbed
fork-shaped
fork-tail
fork-tailed
fork-tined
fork-tongued
forked chain
forked lightning
forked tongue
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
form a part of
form a series
form a unity
form a whole
form an estimate
form an opinion
form board
form class
form drag
form factor
form four
form fours
form genus
form ideas
form letter
form master
form of address
form of government
form of service
form of speech
form of worship
form quotient
form species
form squares
form stop
form the foundation of
form word
form-establishing
form-fitting
form-function unit
form-giving
form-giving cause
form-relieve
form-revealing
formal agreement
formal cause
formal clothes
formal contract
formal contrast
formal dress
formal fallacy
formal language
formal logic
formal observance
formal speech
formal visit
formal written language
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
fortune-telling
forty hours
forty machine
forty ways from Sunday
forty winks
forty-acre
forty-eight
forty-eighth
forty-eightmo
forty-eighthmos
forty-fifth
forty-first
forty-five
forty-foot
forty-four
forty-fourth
forty-knot
forty-legged
forty-mile
forty-nine
forty-niner
forty-ninth
forty-one
forty-pound
forty-second
forty-seven
forty-seventh
forty-six
forty-sixth
forty-skewer
forty-spot
forty-third
forty-three
forty-ton
forty-two
forty-year
forward bias
forward bridge
forward deck
forward delivery
forward echelon
forward exchange
forward look
forward motion
forward observer
forward pass
forward quotation
forward roll
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
foster-nurse
foster-sister
foster-son
foul anchor
foul ball
foul breath
foul invective
foul language
foul line
foul matter
foul odor
foul out
foul play
foul pole
foul shot
foul the anchor
foul tip
foul up
foul weather
foul wind
foul your own nest
foul-breathed
foul-browed
foul-faced
foul-handed
foul-looking
foul-minded
foul-mindedness
foul-mouthing
foul-reeking
foul-smelling
foul-spoken
foul-tasting
foul-tongued
foul-up
foul-weather suit
fouled anchor
fouled up
fouled-up
found object
found on
found wanting
foundation course
foundation cream
foundation garment
foundation plate
foundation stone
foundation stop
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o'clock
four o'cat
four o'clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylinder
four-cylindered
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leaf clover
four-leafed
four-leaved
four-leaved grass
four-legged
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-oclock
four-oclock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
four-posted
four-poster
four-poster bed
four-pound
four-quarter
four-rayed
four-ring
four-roomed
four-rowed
four-rowed barley
four-second
four-shilling
four-sided
four-spined
four-spot
four-spotted
four-square
four-star general
four-storied
four-story
four-stranded
four-stringed
four-striped
four-striper
four-stroke
four-stroke cycle engine
four-stroke-cycle
four-tailed bandage
four-three-two-one rule
four-time
four-times-accented
four-tined
four-toed
four-toes
four-ton
four-tooth
four-up etc
four-way
four-way cock
four-way switch
four-week
four-wheel
four-wheel drive
four-wheeled
four-wheeler
four-winged
four-yard
four-year
four-year college
four-year-old
four-year-older
fourfold block
fourfold purchase
fourfold tackle
fourier series
fourpence hapenny
fourscore and ten
fourth class
fourth dimension
fourth estate
fourth of july
fourth part
fourth person
fourth position
fourth stomach
fourth wall
fourth-born
fourth-class
fourth-class mail
fourth-dimensional
fourth-form
fourth-hand
fourth-rate
fourth-rateness
fourth-rater
fourth-year
fovea centralis
fowl cherry
fowl cholera
fowl grass
fowl leukemia
fowl leukosis
fowl meadow grass
fowl mite
fowl paralysis
fowl part
fowl pest
fowl pox
fowl spirochaetosis
fowl spirochetosis
fowl tick
fowl typhoid
fowling piece
fowling-piece
fowls of the air
fox and geese
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxtail beardtongue
foxtail cactus
foxtail grass
foxtail lily
foxtail millet
foxtail pine
foxtail saw
foxtail wedge
foxtail wedging
foxter-leaves
fps units
fra diavolo
fractional currency
fractional distillation
fractional lot
fractional note
fractional-pitch
fractocumulus cloud
fracture one
fragile health
fragmentation bomb
fragmentation grenade
fragrance control
fragrant as new-mown hay
fragrant sumac
fragrant weed
fraid-cat
fraidy-cat
frail health
frail humanity
frail sister
frail-bodied
frame aerial
frame assembler
frame bar
frame bend
frame boat
frame brazer
frame breaker
frame breaking
frame bridge
frame builder
frame building
frame cleaner
frame construction
frame cottage
frame dam
frame door
frame doubler
frame dresser
frame driller
frame dwelling
frame finisher
frame fitter
frame gate
frame house
frame line
frame lumber
frame maker
frame making
frame molding
frame of mind
frame of reference
frame plate
frame saw
frame sawyer
frame set
frame space
frame structure
frame stud
frame timber
frame trestle
frame turner
frame up
frame vise
frame wall
frame worker
frame-house
frame-made
frame-up
frame-work
frames of reference
framing chisel
framing number
framing square
framing table
fran tireur
franc-archer
franc-tireur
franchise clause
franchise tax
franco-
francs-archers
francs-tireurs
frangible booster
frangula emodin
frank almonage
frank chase
frank-almoign
frank-faced
frank-fee
frank-ferm
frank-law
frank-marriage
frank-pledge
frank-spoken
frank-tenement
frankfurt sausage
frankincense pine
franklin stove
frater house
fraternal feeling
fraternal insurance
fraternal order
fraternal society
fraternal twin
fraternal twins
fraternity house
fraternity man
fraternize with
fraud order
fraudulent voter
fraught with danger
fraught with doom
fraught with significance
frayed nerves
frazzled nerves
freak accident
freak of nature
freak out
freak out on
freak show
freak-out
freaked out
freaked-out
freakish inspiration
freckle-faced
freckled-faced
fred-stole
free abstraction
free abstractionist
free admission
free agent
free air
free alongside ship
free alongside vessel
free alternating current
free and clear
free and common socage
free and easy
free as a bird
free as air
free as the wind
free ascent
free association
free association test
free atmosphere
free balloon
free ballooning
free bench
free bid
free capital
free choice
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free for nothing
free for the asking
free form
free from
free gift
free giver
free gold
free goods
free gratis
free gratis for nothing
free hand
free house
free kick
free labour
free lance
free list
free liver
free living
free love
free lover
free lunch
free milling
free morpheme
free nation
free of
free of charge
free of cost
free of expense
free on board
free on rail
free pass
free person
free perspective
free play
free port
free press
free radical
free reach
free reaching
free ride
free rider
free school
free scope
free silver
free silverism
free silverite
free socage
free soi
free soil
free speech
free spirit
free state
free thought
free throw
free throw line
free ticket
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-footed
free-for-all
free-form
free-going
free-grown
free-hand
free-handed
free-handedly
free-handedness
free-hearted
free-lance
free-lance worker
free-lance writer
free-lancer
free-liver
free-living
free-lovism
free-machining
free-minded
free-mindedly
free-mindedness
free-mouthed
free-moving
free-quarter
free-quarterer
free-range
free-reed
free-rider
free-select
free-silver
free-soil
free-soiler
free-soilism
free-space aerial
free-speaking
free-spending
free-spirited
free-spoken
free-spokenly
free-spokenness
free-standing
free-stone
free-swimmer
free-swimming
free-tailed
free-thinker
free-throw
free-tongued
free-trade
free-trader
free-trading
free-tradist
free-versifier
free-willed
free-willer
free-working
freeboard deck
freeboard length
freedom abused
freedom fighter
freedom from fear
freedom from illusion
freedom from want
freedom from war
freedom of speech
freedom of speech and expression
freedom of the city
freedom of the press
freedom of the seas
freedom of worship
freedom ride
freedom rider
freehand drawing
freeing port
freewill baptist
freewill offering
freeze on
freeze out
freeze over
freeze solid
freeze the blood
freeze to
freeze to death
freeze your balls off
freeze-dried
freeze-dry
freeze-drying
freeze-out
freeze-up
freezer burn
freezer locker
freezer ship
freezing cold
freezing drizzle
freezing machine
freezing mixture
freezing point
freezing process
freezing rain
freezing weather
freezing wind
freezing works
freight agent
freight bill
freight boat
freight broker
freight canvasser
freight car
freight clerk
freight conductor
freight density
freight elevator
freight engine
freight forwarder
freight handler
freight house
freight insurance
freight locomotive
freight mileage
freight note
freight rate
freight receipt
freight room
freight shed
freight steamer
freight tariff
freight ton
freight traffic
freight train
freight transport
freight truck
freight vessel
freight wagon
freight with
freight-mile
freighted with doom
freighted with significance
french bulldog
french chalk
french chop
french crown
french door
french dressing
french endive
french fry
french heel
french horn
french leave
french pastry
french polish
french telephone
french toast
french window
french-like
frenzy of desire
frenzy of lust
frequency band
frequency changer
frequency control
frequency converter
frequency curve
frequency distribution
frequency divider
frequency doubler
frequency histogram
frequency indicator
frequency meter
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
fresh-drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
frigate-built
fright disease
fright neurosis
frighten from your propriety
frighten off
frighten out of your senses
frighten out of your wits
frightened out of your wits
frightening off
frightful bore
frightfully rich
frigid purgatorial fires
frigid zone
frill shark
frill-bark
frill-barking
frill-like
frilled lizard
frills and furbelows
fringe area
fringe benefit
fringe benefits
fringe bush
fringe cup
fringe moss
fringe tree
fringe-bell
fringe-toed lizard
fringe-tree bark
fringed brome
fringed galax
fringed gentian
fringed orchis
fringing forest
fringing reef
frise aileron
frit fly
frit-fly
frith-guild
frith-stool
fritter away
fritter away time
fritto misto
frivol away
frivolity-proof
frizzle disease
frizzle fowl
frock coat
frock-coat
frog boot
frog cheese
frog clock
frog crab
frog fly
frog grass
frog hair
frog kick
frog legs
frog lily
frog number
frog pad
frog plant
frog shell
frog spawn
frog spit
frog spittle
frog's-bit
frog-belly
frog-bit
frog-eyed
frog-fish
frog-march
frog-mouth
frog-spawn
frogbit family
from A to Z
from A to izzard
from Dan to Beersheba
from Missouri
from afar
from age to age
from all points of the compass
from all quarters
from away back
from bad to worse
from beginning to end
from better to worse
from clew to earing
from cover to cover
from day to day
from door to door
from egg to apples
from end to end
from everlasting to everlasting
from every quarter
from everywhere
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
front crawl
front door
front elevation
front foot
front for
front line
front man
front matter
front money
front of house
front office
front ofice
front on
front page
front position
front rank
front room
front runner
front scene
front view
front window
front-connected
front-fanged
front-focus
front-focused
front-foot
front-page
front-paged
front-paging
front-porch campaign
front-rank
front-ranker
front-runner
front-wheel
frontal assault
frontal attack
frontal bone
frontal convolution
frontal cyclone
frontal gyrus
frontal lobe
frontier post
frontiers of knowledge
fronto-
frost bearer
frost blow
frost feathers
frost flowers
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-blite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frownd-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit barrel
fruit basket
fruit bat
fruit bearing
fruit belt
fruit blight
fruit blossom
fruit body
fruit bowl
fruit bud
fruit bug
fruit bush
fruit buyer
fruit cake
fruit can
fruit cane
fruit canner
fruit canning
fruit chafer
fruit cocktail
fruit compote
fruit crate
fruit crow
fruit culture
fruit cup
fruit dealer
fruit dish
fruit dot
fruit eater
fruit envelope
fruit ether
fruit evaporator
fruit farm
fruit farmer
fruit farming
fruit flavor
fruit fly
fruit garden
fruit grader
fruit jar
fruit jelly
fruit juice
fruit knife
fruit loft
fruit machine
fruit package
fruit packer
fruit packing
fruit peddler
fruit peel
fruit picker
fruit picking
fruit pigeon
fruit pit
fruit pitter
fruit preservative
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruiting body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratique
full professor
full purse
full radiator
full rhyme
full sail
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full tilt
full time
full to bursting
full toss
full trailer
full twist
full vowel
full wine
full word
full-accomplished
full-acorned
full-adjusted
full-annealing
full-armed
full-assembled
full-assured
full-attended
full-banked
full-beaming
full-bearded
full-bearing
full-bellied
full-blood
full-blooded
full-bloodedness
full-bloomed
full-blossomed
full-blown
full-bodied
full-bodied flavor
full-boled
full-bore
full-born
full-bosomed
full-bottom
full-bottomed
full-bound
full-bowed
full-brained
full-breasted
full-brimmed
full-buckramed
full-built
full-busted
full-buttocked
full-cell
full-celled
full-centered
full-charge
full-charged
full-cheeked
full-chested
full-chilled
full-clustered
full-colored
full-crammed
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashioned
full-fashioned stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruited
full-glowing
full-gorged
full-grown
full-haired
full-hand
full-handed
full-happiessed
full-hard
full-haunched
full-headed
full-hearted
full-hipped
full-hot
full-jeweled
full-jointed
full-known
full-laden
full-leather
full-leaved
full-length
full-leveled
full-licensed
full-limbed
full-lined
full-lipped
full-load
full-made
full-manned
full-measured
full-minded
full-moon
full-moon maple
full-mouthed
full-mouthedly
full-natured
full-necked
full-nerved
full-opening
full-orbed
full-out
full-page
full-paid
full-panoplied
full-paunched
full-personed
full-pitch
full-pitch winding
full-plumed
full-power
full-powered
full-proportioned
full-pulsing
full-rayed
full-resounding
full-rigged
full-rigged ship
full-rigger
full-ripe
full-ripened
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shroud
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
full-toned
full-top
full-trimmed
full-tuned
full-turn stair
full-tushed
full-udder
full-value
full-voiced
full-volumed
full-wave
full-wave rectification
full-wave rectifier
full-wave rectifier tube
full-way
full-weight
full-weighted
full-whiskered
full-winged
full-witted
fuller's earth
fuller's teasel
fullering tool
fulling mill
fulling stock
fullness of time
fully developed
fully fashioned
fully fledged
fully realized
fulminate against
fulminating compound
fulminating mercury
fulminating powder
fulminic acid
fulvous tree duck
fumaric acid
fumble-fist
fume chamber
fume cupboard
fumed oak
fumes of fancy
fuming nitric acid
fuming sulfuric acid
fuming sulphuric acid
fumitory family
fun and games
fun fair
fun house
fun-fair
fun-filled
fun-loving
fun-seeking
function as
function class
function shift
function space
function word
functional analysis
functional calculus
functional design
functional disease
functional furniture
functional group
functional housing
functional illiteracy
functional illiterate
functional load
functional nervous disorder
functional psychology
functional psychosis
functional representation
functional shift
functional yield
functionally illiterate
functions of
fund-raising dinner
fundamental bass
fundamental colors
fundamental frequency
fundamental idea
fundamental law
fundamental note
fundamental particle
fundamental sequence
fundamental theorem of algebra
fundamental theorem of calculus
fundamental tone
fundamental unit
funded debt
funding system
funeral car
funeral chapel
funeral church
funeral coach
funeral customs
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brusher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furl in the bunt
furnace bricklayer
furnace builder
furnace cadmium
furnace calciner
furnace charger
furnace charging
furnace engineer
furnace erector
furnace feeder
furnace fireman
furnace heating
furnace keeper
furnace liner
furnace lining
furnace maker
furnace mounter
furnace oil
furnace regulator
furnace repairer
furnace stoker
furnace tender
furnace tenter
furnace watcher
furnish accommodations
furnish evidence
furnish support
furniture arrangement
furniture broker
furniture carving
furniture designer
furniture enameler
furniture finisher
furniture fitter
furniture japanner
furniture maker
furniture mover
furniture packer
furniture painter
furniture polish
furniture polisher
furniture porter
furniture repairer
furniture store
furniture turning
furniture van
furor epilepticus
furor loquendi
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow draining
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
fuscoco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fusi-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
fuss at
fuss up
fuss-budget
fuss-budgety
fusty-framed
fusty-looking
fusty-rusty
futtock band
futtock chain
futtock hoop
futtock plate
futtock shroud
futtock staff
futtock stave
future event
future grain
future life
future perfect
future price
future prospects
future state
future tense
future time
future-minded
futures contract
futurity race
futurity stakes
fuzz cut
fuzz up
fuzz-ball
fuzzy memory
fuzzy-guzzi
fuzzy-haired
fuzzy-headed
fuzzy-legged
fuzzy-wuzzy
g clef
g sol re ut
g suit
g-cal
g-man
g-string
gab pin
gabbro-porphyrite
gaberlunzie-man
gable end
gable roof
gable wall
gable window
gable-bottom
gable-bottom car
gable-end
gable-ended
gable-roofed
gable-shaped
gable-walled
gable-windowed
gaboon mahogany
gad about
gad so
gad-bee
gad-fly
gadget bag
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-  
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galact-
galactic circle
galactic cluster
galactic coordinates
galactic distance
galactic equator
galactic latitude
galactic longitude
galactic nebula
galactic noise
galactic plane
galactic pole
galactic poles
galactic space
galacto-
galam butter
galanga root
galanty show
gale day
gale warning
gale-driven
galena glaze
gales of laughter
galimeta wood
gall and wormwood
gall bag
gall bladder
gall cyst
gall duct
gall fig
gall gnat
gall midge
gall mite
gall oak
gall passage
gall pipe
gall sickness
gall sickness bush
gall wasp
gall wind
gall-fly
gall-less
gall-like
gall-nut
gall-stone
galla ox
gallant soldier
gallantry under fire
gallery forest
gallery gods
gallery organ
gallery road
galleta grass
galley chase
galley foist
galley halfpenny
galley press
galley proof
galley punt
galley slave
galley slice
galley slug
galley stove
galley worm
galley-fashion
galley-man
galley-slave
galley-tile
galley-west
gallic acid
gallo-
gallo-tannate
gallo-tannic
gallop rhythm
galloper gun
galloping dandruff
galloping dominoes
gallow pulley
gallow tree
gallows balk
gallows bird
gallows bitts
gallows frame
gallows humor
gallows humour
gallows tree
gallows-bird
gallows-grass
gallows-tree
gally tile
galois theory
galvanic battery
galvanic cell
galvanic circle
galvanic circuit
galvanic couple
galvanic current
galvanic electricity
galvanic pile
galvanic shock
galvanic skin response
galvanized iron
galvano-
gam-
gama grass
gamba bass
gamba goose
gamba stop
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboge yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
gang-week
ganging plea
gangle-shanked
gangli-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gaping chasm
gaping depths
gapped scale
gar pike
gar-pike
garab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garble accounts
garboard plank
garboard strake
garbutt rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth
garden geranium
garden ginger
garden glass
garden heliotrope
garden hoe
garden hose
garden house
garden huckleberry
garden hyssop
garden lemon
garden mint
garden mold
garden nasturtium
garden nightshade
garden of the Gods
garden of the Hesperides
garden orach
garden orpine
garden party
garden path
garden patience
garden pepper
garden pepper cress
garden peppergrass
garden persicary
garden phlox
garden pink
garden plague
garden plow
garden poppy
garden portulaca
garden purslane
garden rocket
garden roller
garden sage
garden sauce
garden sculpture
garden seat
garden snail
garden sorrel
garden spade
garment parts
garment presser
garnet parts and fancies
garnet brown
garnet hinge
garnet jade
garnet lac
garnet paper
garnet-breasted
garnet-colored
garnet-red
garnish bolt
garnishee order
garrison cap
garrison finish
garrison flag
garrison house
garrison prisoner
garrison rations
garrison school
garrison state
garter belt
garter blue
garter snake
garter stitch
garter stockings
garter-blue
garth cress
gas analyzer
gas attack
gas bacillus
gas balloon
gas battery
gas bend
gas black
gas bladder
gas bomb
gas buoy
gas burner
gas cap
gas carbon
gas cell
gas chamber
gas chromatography
gas coal
gas coke
gas company
gas plant
gas plate
gas pliers
gas poker
gas polarization
gas producer
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gaslight paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled

gaster-
gastr-

gastraea theory
gastric antacid
gastric digestion
gastric glands
gastric juice
gastric lavage
gastric ulcer
gastro-
gastro-omental
gastrocolic omentum
gastrohepatic omentum
gastrointestinal disease
gastrointestinal tract
gat-toothed
gate bill
gate channel
gate hinge
gate leg
gate money
gate net
gate pin
gate receipts
gate road
gate shear
gate shears
gate table
gate tower
gate valve
gate wheel
gate, the
gate-crash
gate-crasher
gate-keeper
gate-leg
gate-leg table
gate-legged
gate-legged table
gate-netting
gate-post
gateleg table
gatelegged table
gather around
gather courage
gather flesh
gather head
gather in
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gaude lake
gaudy-day
gaufre-iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaultheria oil
gaunt-bellied
gauze ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceiver
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted
gay-tailed
gay-throned
gaze at
gaze open-mouthed
gaze upon
gaze-hound
gazelle brown
gazelle hound
gazelle-boy
gazelle-eyed
gazer-on
gazetted officer
gazing ball
gazing-stock
ge-
gear box
gear brusher
gear case
gear cutter
gear down
gear fitter
gear forger
gear hobber
gear lever
gear maker
gear miller
gear oiler
gear pump
gear ratio
gear roller
gear shaper
gear shifter
gear to
gear train
gear up
gear wheel
gear-cutting
gear-driven
gear-operated
gear-wheel pump
gearied head lathe
gearing chain
gearless traction
gee ho
gee pole
g ee string
gee up
gee up!
gee whillikins
gee whiz
gee whizz
gee-gee
gee-haw
gee-throw
gee-up
gefillte fish
gefilte fish
gefullte fish
gefulte fish
gegen-ion
gehockte leber
gelgen principal
gelger counter
gelger tree
gelger-muller tube
geil fine
geisha girl
gel filtration
gel mineral
gelada baboon
gelatin dynamite
gelatin emulsion
gelatin filter
gelatin maker
gelatin molder
gelatin process
gelatin slide
gelatin-coated
gelatino silver bromide
gelatino-
gem carver
gem cutter
gem cutting
gem designer
gem engraver
gem fancier
gem grinder
gem jade
gem list
gem of the first water
gem peg
gem setter
gem stick
gem stone
gem stones
gem-bearing
gem-bedewed
gem-bedizened
gem-bespangled
gem-bright
gem-cutting
gem-decked
gem- engraving
gem-faced
gem-fruit
gem-grinding
gem-set
gem-spangled
gemel bar
gemel bottle
gemel hinge
gemel ring
gemel window
gemma cup
gen up
gen-
genappe yarn
gendarme blue
gene complex
gene flow
gene frequency
gene mutation
gene pool
gene-string
genealogical tree
general acclamation
general adaptation syndrome
general agent
general agreement
general anaesthetic
general anesthetic
general assembly
general aviation
general belief
general confession
general consent
general court
general court-martial
general delivery
general demurrer
general dentistry
general dictionary
general discharge
general education
general election
general expenses
general headquarters
general hospital
general idea
general information
general knowledge
general lien
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
general-duty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
generally capable
generally speaking
generate electricity
generating station
generating tone
generation gap
generation of man
generative cell
generative grammar
generative semantics
generator gas
generator unit
generic name
generic resemblance
generous-hearted
genethliac astrology
genetic code
genetic disease
genetic drift
genetic engineering
genetic fallacy
genetic individual
genetic method
genetic psychology
genetically related
geneva bands
geneva convention
geneva cross
geneva gown
genio-
genitive absolute
genito-
genius domus
genius familiae
genius for
 genie loci
genius tutelae
gen-
genoa foresail
genoa jib
genre painter
genre painting
gens d'armerie
genteel comedian
genteel comedy
genteel poverty
gentian blue
gentian family
gentian root
gentian violet
gentianic acid
gentile-falcon
gentility manners
gentil-
gentisic acid
gentle art
gentle as a lamb
gentle breeze
gentle contact
gentle craft
gentle hint
gentle melancholy
gentle sex
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturedly
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
gentoo penguin
genu valgum
genuine object
genus Homo
dee probe
dee-navigation
deeocentric longitude
deeocentric parallax
deeodesic dome
deeodesic geometry
deeodesic line
deeodetic engineer
deeodetic engineering
deeodetic longitude
deeodetic satellite
deeodetic survey
deeodetic surveying
deeographic determinism
deeographic environment
deeographic longitude
geographic range
geographical determinism
geographical dictionary
geographical mile
geographically limited
geoid-spheroid
geoid-spheroid balance
geologic time
geological chemistry
geological dictionary
geological engineer
geological engineering
geological time periods
geometric figure
geometric isomerism
geometric mean
geometric pace
geometric progression
geometric proportion
geometric ratio
geometric series
geometrical horizon
geometrical lathe
geometrical optics
geometrical pace
geometrical pitch
geometrical progression
geometrical stair
geophysical satellite
georgia pine
geostrophic wind
geotectonic geology
geranium creeper
geranium family
geranium lake
geranium oil
geranium pink
geriatric disease
germin breeder
germin cell
germin destroyer
germin disease
germin disk
germin gland
germin layer
germin nucleus
germin pathology
germin peg
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
get back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
get down cold
get down from your high horse
get down on your hunkers
get down on your knees
get down on your marrowbones
get down pat
get down to brass tacks
get down to business
get down to cases
get down to nuts and bolts
get drunk
get even
get even with
get excited
get excited about
get exposure
get for free
get for your pains
get free
get free of
get fresh
get from
get funny
get going
get heads together
get hep to
get hers
get high
get high on
get his
get hitched
get hold of
get hold of an idea
get hold of yourself
get home free
get hot under the collar
get huffy
get hung up
get in
get in a bind
get in a box
get in a hole
get in a jam
get in a mess
get in a pincers
get in a rut
get in a word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
geton your high horse
geton your nerves
geton one wrong
geton onto
geton organized
geton out
geton out a sheet-anchor
geton out of
geton out of bed
geton out of commission
geton out of gear
geton out of here
geton out of joint
geton out of kelter
geton out of kilter
geton out of line
geton out of order
geton out of the way of
geton out of whack
geton out of your depth
geton over
geton over the ground
geton over with
geton pickled
geton plastered
geton quit of
geton quits with
geton ready
geton ready to
geton red in the face
geton religion
geton rich
geton rid of
geton right
geton round
geton satisfaction
geton scent of
geton sea room
geton set
geton set for
geton shet of
geton shut of
geton sidetracked
geton smart
geton some air
geton some sack time
geton some shut-eye
get something out of your system
get sore
get square with
get squared away
get taped
get the advantage
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
get the lead out of your ass
get the lie of the land
get the mastery of
get the meaning of
get the picture
get the power into your hands
get the show on the road
get the start
get the upper hand
get the works
get the worst of it
get there
get things into proportion
get through
get through to
get through with
get through your head
get through your thick head
get tired
get to
get to be
get to do
get to first base
get to know one another
get to the bottom of
get to the core
get to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
get your hopes up
get your mad up
get your money's worth
get your monkey up
get yourself a deal
get yourself in a sulk
get-at-ability
get-at-able
get-at-ableness
get-away
get-away speed
get-off
get-out
get-together
get-tough
get-up
get-up-and-get
get-up-and-go
getah wax
getet out
getting along
getting along in years
getting around
getting even
getting hold of
getting on
getting on in years
getting rid of
getting round
getting the hell out
getting with child
geyser basin
geyser cone
gharry-wallah
ghatti gum
ghetto-dwellers
ghost candle
ghost crab
ghost daemon
ghost dance
ghost edition
ghost food
ghost god
ghost gum
ghost hole
ghost line
ghost lodge
ghost lore
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bamboo
giant bass
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer
giant lily
giant lizard
giant of learning
giant order
giant panda
giant parsnip
giant petrel
giant planet
giant powder
giant ragweed
giant reed
giant rye grass
giant schnauzer
giant sea bass
giant sequoia
giant silkworm moth
giant size
giant slalom
giant sloth
giant snowdrop
giant star
giant step
giant steps
giant stride
giant sunflower
giant tortoise
giant water bug
giant-like
giant-sized
gib fish
gib plate
gib-cat
gib-head
gib-head key
gibbed cat
gibber bird
gibberellic acid
gibberellic acid
gibbet law
gibbet tree
gibble-gabble
gibble-gabbler
gibboso-
gibbous moon
gibby stick
gibe at
gibing retort
giblet-check
giblet-checked
giblet-cheek
gibus hat
giddy as a goose
giddy-brained
giddy-drunk
giddy-go-round
giddy-headed
giddy-paced
giddy-pated
giddy-witted
gier-eagle
giff-gaff
gift balsam
gift certificate
gift for
gift of expression
gift of gab
gift of the gab
gift of tongues
gift rope
gift shop
gift tax
gift with
gift wrap
gift wrapping
gift-rope
gift-wrap
gift-wrapped
gift-wrapping
gift-wrapt
gifted child
gifted person
gig lamp
gig machine
gig mill
gig-lamp
gig-mill
giga-
gigaelectron volt
gigant-
giggle house
gigot sleeve
gila monster
gild the lily
gild the pill
gilding metal
gilding wax
gilgai soil
gill arch
gill bailer
gill bar
gill basket
gill book
gill box
gill cavity
gill chamber
gill cleft
gill comb
gill cover
gill filament
gill frame
gill fungus
gill helix
gill net
gill plume
gill pouch
gill rake
gill raker
gill rod
gill scoop
gill slit
gill-ale
gill-book
gill-cup
gill-flirt
gill-less
gill-like
gill-netter
gill-over-the-ground
gill-run
gill-shaped
gillie-wetfoot
gillie-whitefoot
gilling machine
gilling thread
gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gim peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
ginger plant
ginger pop
ginger punch
ginger quill
ginger root
ginger snap
ginger spice
ginger tea
ginger up
ginger wine
ginger-beer
ginger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingerbread man
gingerbread nut
gingerbread palm
gingerbread plum
gingerbread tree
gingili oil
gingiv-
ginkgo nut
ginny carriage
ginny-carriage
ginseng family
gipsy capstan
gipsy moth
gipsy winch
giraffe camel
girandole clock
girasol thorn
gird up your loins
gird your loins
girder bridge
girder erector
girder rail
girder riveter
girder stay
girder tool
girdle band
girdle bone
girdle pain
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl friday
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girl-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give one a scare
give one a turn
give one line
give onto
give or take a little
give origin to
give out
give out a smell
give out with
give over
give over to
give pain
give pause
give permission
give place
give place to
give pleasure
give power
give prominence
give prospect of
give publicity
give quarter
give reason for
give recognition
give refuge to
give rein to
give release
give relief
give respite
give rise to
give rope enough to
give salvation
give sanctuary to
give satisfaction
give security
give shelter to
give sign
give someone a dose
give someone enough rope
give someone his due
give someone the eye
give someone the slip
give someone your hand on
give something the gun
give sorrow words
give special attention to
give support
give surcease
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacis plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glance through
glance upon
glancing angle
glancing boom
glancing light
gland disease
glandular fever
glandular plague
glandular therapy
glans clitoridis
glans penis
glare ice
glare-eyed
glaring light
glaring look
glass bead
glass block
glass blower
glass blowing
glass brick
glass burner
glass cement
glass coach
glass curtain
glass cutter
glass cutting
glass decorator
glass eye
glass gall
glass harmonica
glass house
glass jaw
glass lizard
glass of time
glass painting
glass pot
glass pox
glass printing
glass sculpture
glass snail
glass snake
glass soap
glass string
glass tank
glass wool
glass-blower
glass-blowing
glass-bottomed
glass-bottomed boat
glass-built
glass-cabin launch
glass-cloth
glass-coach
glass-coated
glass-colored
glass-covered
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced
glass-fronted
glass-glazed
glass-green
glass-hard
glass-house
glass-lined
glass-maker
glass-man
glass-paneled
glass-paper
glass-topped
glass-work
glassed-in
glasses case
glassy-eyed
glauber's salt
glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green
glaucous-winged
glaze frost
glaze ice
glaze kiln
glaze wheel
glazed doughnut
glazed frost
glazed ware
glazier's point
glazing bar
glazing bead
glazing brad
glazing-bar
gleam of hope
gleam of light
gleaming smile
glean knowledge
glean learning
glebe house
glebe land
glee club
glee-eyed
glen nymph
glen-garry bonnet
gleno-
glial cells
glib tongue
glib-gabet
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
glide-bombing
glider bomb
glider train
gliding angle
gliding boat
gliding joint
gliding machine
glimmer gowk
glimmer of hope
glimmering goal
glitter ice
glittering generality
gloat on
gloat over
gloating pleasure
global rule
global war
globe amaranth
globe animalcule
globe artichoke
globe crowfoot
globe daisy
globe dollar
globe hyacinth
globe joint
globe lightning
globe lily
globe mallow
globe ranunculus
globe sight
globe thistle
globe tulip
globe valve
globe-girdler
globe-girdling
globe-shaped
globe-trot
globe-trotter
globe-trotting
globigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glum on to
gloomy Gus
gloomy outlook
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glosso-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glossy snake
glossy-black
glossy-leaved
glossy-white
glost fire
glost fireman
glost firing
glost oven
glost placer
glost-fired
glott-
glottal stop
glotto-
glove box
glove compartment
glove contest
glove grain
glove maker
glove money
glove puppet
glove silk
glove silver
glove sponge
glove stitch
glover's stitch
glow beetle
glow discharge
glow discharge tube
glow lamp
glow light
glow lighting
glow meter
glow plug
glow tube
glow-discharge microphone
glow-worm
glowering look
glowing health
glowing smile
gloze over
glucaic acid
gluck-gluck
glukliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut-
glutamic acid
glutaminic acid
gluteal region
glutei maximii
gluten bread
gluten feed
gluten flour
gluten meal
gluteus maximus
gluteus medius
gluteus minimus
glutton bird
glyc-
glycer-
glyceria wax
glyceric acid
glyceric aldehyde
glycerin jelly
glycerin lye
glycerin soap
glycer-
glycerol nitrate
glyceryl ester
glyceryl esters
glyceryl group
glyceryl monoacetate
glyceryl nitrate
glyceryl radical
glyceryl trinitrate
glyceryl trioleate
glyceryl tripalmitate
glyco-
glycogen disease
glycogenic acid
glycolic acid
glycolic acid
glyconic acid
glycuronic acid
glycyrrhizae composita
glyoxyxyl urea
glyptic artist
glyptographic artist
gnamma hole
gnash your teeth
gnashing of teeth
gnat hawk
gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoid-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go alongside
go amiss
go and
go and do
go and get
go and hang yourself
go ape
go ape over
go around
go around and around
go around in circles
go as
go as the crow flies
go as you please
go ashore
go ass over elbows
go astern
go astray
go astray from
go at
go at a snail's pace
go at flank speed
go at full blast
go at full steam
go at full tilt
go at it ass-backwards
go at large
go at liberty
go at the double
go away
go awol
go awry
go back
go back on
go back on your word
go back over
go back to
go backwards
go bad
go bail
go bail for
go bananas
go bankrupt
go beddy-bye
go before
go begging
go behind
go below
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
by air
by airline
fits and starts
by plane
by rail
by ship
by the board
by the name of
by bye-bye
cahoots
cahoots with
camping
cap in hand to
chase yourself
contrary to
counter to
crabwise
crackers
crazy
dead
dead slow
deaf
deep
depth
directly
down
down in the world
down like a stone
don on your knees to
down the drain
down to the sea in ships
down with flying colors
downhill
easily
easy
easy on
even stephen
even stephen with
far
far afield
fast
fetch
fifty-fifty
fifty-fifty with
fish
fishing
flat out
go fly a kite
go for
go for a Sunday drive
go for a burton
go for a drive
go for a ride
go for a spin
go for a walk
go for an airing
go for an outing
go for broke
go for the deck
go foreign
go forth
go forward
go free
go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm's way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading

go in with

go into

go into a funk

go into a huddle

go into a tail spin

go into a tailspin

go into a tantrum

go into convulsions

go into decay

go into detail

go into heart and soul

go into hiding

go into hysterics

go into litigation

go into mourning

go into orbit

go into outer space

go into partnership with

go into raptures

go into receivership

go into retirement

go into reverse

go into seclusion

go into shock

go into the money market

go into training

go into your pocket

go it alone

go jump in the lake

go kaput

go lame

go light
go like
go like a bat out of hell
go like a flash
go like a shot
go like a streak of lightning
go like clockwork
go like greased lightning
go like hot cakes
go like lightning
go like the wind
go long
go mad
go maku
go marketing
go native
go near
go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
go out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
go out on a limb
go out on strike
go out the window
go out with
go out with the ebb
go out with the tide
go over
go over again and again
go over and over
go over big
go over like a lead balloon
go over step by step
go over the board
go over the ground
go over the hill
go over the same ground
go over the side
go over the top
go over the wall
go over to the enemy
go over to the great majority
go over to the majority
go over your head
go onboard
go overseas
go partners
go peddle your fish
go phut
go pitapat
go pitter-patter
go places
go places and do things
go public
go right through
go roll your hoop
go round
go round Robin Hood's barn
go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
go short
go sideways
go sit on a tack
go slow
go slowly
go slumming
go snack
go soak your head
go soft
go soft at the edges
go steady
go step by step
go straight
go straight on
go straight to the point
go the dizzy rounds
go the limit
go the long way around
go the other way
go the round
go the rounds
go the route
go the same round
go the vole
go the way of all earth
go the way of all flesh
go the whole hog
go the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go uphill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
go-getting
go-go
go-go dancer
go-kart
go-moku
go-off
go-quick
go-slow policy
go-to-itiveness
go-to-meeting
goa powder
goad on
goal area
goal crease
goal judge
goal kick
goal line
goal minder
goal net
goal post
goal posts
goal stick
goal tender
goal tending
goal-post mast
goat antelope
goat chaffer
goat cheese
goat fig
goat god
goat grass
goat hair
goat marjoram
goat milker
goat moth
goat nut
goat owl
goat pepper
goat pox
goat rue
goat's hair
goat's-beard
goat's-rue
goat-bearded
goat-drunk
goat-eyed
goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
goblet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-phere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
goffeor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
going out
going over
going price
going strong
going through
going to Jerusalem
going to happen
going to pieces
going to the polls
going train
going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
going on
going-ons
going-over
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robbed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden-fingered
golden-footed
golden-fruitied
golden-gleaming
golden-glowing
golden-green
golden-haired
golden-headed
golden-hilted
golden-hued
golden-leaved
golden-locked
golden-mouthed
golden-rain tree
golden-rayed
golden-rod
golden-spotted
golden-throned
golden-tipped
golden-toned
golden-tongued
golden-tressed
golden-voiced
golden-winged
golden-yellow
goldenrain tree
goldenrod tree
goldfish bowl
goldsmith beetle
golf bag
golf ball
golf cart
golf club
golf course
golf green
golf hose
golf links
golf red
golf shoe
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-paauw
gombeen-man
gombeen-men
gomboon ware
gomoku-zogan
gomuti palm
gon-
gondang wax
gondola back
gondola car
gone arrow
gone away
gone bad
gone begging
gone by
gone feeling
gone for a burton
gone glimmering
gone goose
gone off
gone on
gone out
gone out of your head
gone out of your recollection
gone the way of all flesh
gone to a better land
gone to a better place
gone to a better world
gone to dust
gone to glory
gone to kingdom come
gone to pot
gone to rack and ruin
gone to seed
gone to the bad
gone to the dogs
gone to waste
gone to wrack and ruin
gone west
gone-by
gong bell
gong buoy
gong drum
gong-gong
goni-
gono-
gonococcal arthritis
gonorrheal arthritis
gonorrheal rheumatism
goo-goo
goo-goo eyes
goober pea
good Christian
good English
good Joe
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boygood girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good feeling
good fellow
good figure
good fist
good flavor
good folk, the
good footing
good for
good for a laugh
good for you
good form
good fortune
good friday
good friend
good full
good genius
good graces
good gracious
good guy
good hair
good hand
good health
good hearing
good heavens
good hope
good humor
good humour
good idea
good influence
good judge
good judgment
good lack
good life
good life, the
good looker
good looks
good loser
good lot
good luck
good man
good management
good manners
good marrow
good measure
good memory
good mixer
good morning
good morrow
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowship
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gundrops
goody-good
goody-goodies
goody-goodiness
goody-goodness
goody-goody
goody-goodyism
goody-goodyness
goof around
goof off
goof up
goof-off
goof-off time
goof-up
goofing off
googly-eyed
goon squad
gooney bird
goose barnacle
goose bumps
goose call
goose chase
goose club
goose corn
goose egg
goose file
goose flesh
goose grass
goose gray
goose grease
goose gull
goose pen
goose pimples
goose plant
goose plum
goose quill
goose rump
goose skin
goose step
goose tansy
goose teal
goose tree
goose walk
goose-beak whale
goose-bill
goose-cackle
goose-egg
goose-flesh
goose-fleshy
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gooseberry rust
gooseberry sawfly
gooseberry spanworm
gooseberry stone
gooseberry tomato
gooseberry tree
gooseberry wine
gooseberry-eyed
goosefoot family
goosefoot maple
gooseneck lamp
gooseneck slicker

"Goosewing jibe"
gopher apple
gopher ball
gopher drift
gopher frog
gopher hole
gopher plant
gopher plum
gopher snake
gopher tortoise
gopher turtle
gopher wood
gopher-hole blast
gora log
gordian knot
gordon setter
gordura grass
gore strake
gore-fish
goreng pisang
gorge circle
gorge hook
gorge on
gorge wind
gorge yourself
gorgon plant
gorgon-headed
goring cloth
gorse duck
gorse hatcher
gos-lettuce
gosh-awful
gosh-darn
gosling color
gosling grass
gosling green
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
gossip column
gossip columnist
gossip made tedious by morality

got to
gothic arch
gothic section
gouden reaal
gouge carving
gouge out
gouge shell
gourd cup
gourd family
gourd melon
gourd towel
gourd tree
gourd-shaped
gourdhead buffalo
gourdseed buffalo
gourmet quality
gout fly
gout ivy
gout of rain
gout tree
gouty arthritis
gouty stool
gou-
governess-ship
governing board
governing body
government archives
government bar
government bond
government building
government control
government depository
government hospital
government insurance
government issue
government man
government mark
government note
government of the people
government paper
government papers
government securities
government stamp
government-general
government-in-exile
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fashion
gr wt
gr-s
graafian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
grab machine
grab off
grab one
grab rope
grab skipper
grab the thoughts
grab-all
grabbot gin
grace cup
grace drink
grace hoop
grace note
grace of expression
grace period
grace with
grace-and-favor
grace-and-favour
grace-cup
graceful gesture
gracious life
gracious living
grade bar
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
gram calorie
gram degree
gram equivalent
gram equivalent weight
gram ion
gram molecule
gram's method
gram-atomic weight
gram-centimeter
gram-meter
gram-molar
gram-molecular
gram-molecular weight
gram-negative
gram-negative bacteria
gram-positive
gram-positive bacteria
gram-variable
grama grass
gramicidin D
graminaceous plant
gramineous plant
grammar college
grammar school
grammar-school
grammatical accent
grammatical analysis
grammatical error
grammatical form
grammatical gender
grammatical meaning
grammatical point
grammatical theory
grammatico-allegorical
gramophone record
gran cassa
gran torismo
grana cheese
granadilla tree
granary weevil
grand air
grand ballroom
grand chain
grand chop
grand climacteric
grand cordon
grand council fire
grand coup
grand-juryman
grand-nephew
grand-niece
grand-scale
grand-slammer
grand-uncle
grandes dames
grandes passions
grandfather chair
grandfather clause
grandfather clock
grandfather graybeard
grandfather longlegs
grandfather's chair
grandfather's clock
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
grani-
granite blue
granite gray
granite paper
granite porphyry
granite quarrier
granite-dispersing
granite-gneiss
granite-gruss
granite-sprinkled
granny flat
granny glasses
granny knot
granny's bend
granny's knot
granny-thread
grano-
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
graphic arts
graphic granite
graphic panel
graphic scale
graphic-texture
graphite steel
grapho-
grapier cement
grapnel plant
grappier cement
grapple bucket
grapple dredge
grapple fork
grapple ground
grapple iron
grapple plant
grapple shot
grapple with
grappling hook
grappling iron
grasp at a straw
grasp the meaning
grasping organ
grasping organs
grass bass
grass box
grass bur
grass carp
grass cattle
grass character
grass cloth
grass cold
grass comber
grass court
grass drake
grass earth
grass family
grass fern
grass finch
grass frog
grass green
grass guard
grass gum
grass hand
grass hockey
grass ill
grass lamb
grass land
grass lawn
grass lily
grass linen
grass mildew
grass moor
grass moth
grass owl
grass paper
grass parakeet
grass pea
grass pickerel
grass pink
grass plover
grass poly
grass pondweed
grass porgy
grass rockfish
grass roots
group rug
group sandwort
group savanna
group shears
group skirt
group snake
group snipe
group sorghum
group spider
group sponge
group stagers
group steppe
group style
group swine
group table
group tetany
group tree
group veld
group vetch
group warbler
group webworm
group widow
group widower
group wrack
group-blade
group-carpeted
group-clad
group-cloth
group-cloth plant
group-covered
group-cushioned
group-cutting
group-eater
group-eating
group-embroidered
group-fed
group-green
group-growing
group-grown
group-hook
group-killing
group-leaved
group-mowing
group-of-Parnassus
group-plat
group-roofed
group-roots
grass-roots campaign
glass-roots movement
glass-tree
glass-tree gum
glass-woven
glass-wren
glasshopper engine
glasshopper escapement
glasshopper gauge
glasshopper lark
glasshopper lobster
glasshopper mouse
glasshopper sparrow
glasshopper warbler
glassland buttercup
glassland daisy
glassy-green
glassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
grave robber
grave robbing
grave sin
grave wax
grave-born
grave-bound
grave-browed
grave-clothes
grave-colored
grave-digger
grave-digging
grave-faced
grave-looking
grave-riven
grave-robbing
grave-toned
grave-visaged
grave-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravel-stone
gravel-walk
graven image
graves' disease
graves's disease
graveside oration
gravestone cutter
graveyard shift
graveyard vote
graveyard watch
graveyard weed
gravi-
gravimetric analysis
graving dock
graving piece
graving tool
gravitate toward
gravitation battery
gravitation constant
gravitational astronomy
gravitational collapse
gravitational constant
gravitational field
gravitational interaction
gravitational mass
gravitational wave
gravity battery
gravity cell
gravity clock
gravity conveyer
gravity dam
gravity escapement
gravity fault
gravity feed
gravity hinge
gravity knife
gravity meter
gravity pendulum
gravity plane
gravity railroad
gravity stamp
gravity star
gravity ventilation
gravity wave
gravity wind
gravity-circulation
gravity-fed
gravity-operated railway
gravo-
gravure microscope
gravure press
gravy boat
gravy eye
gravy soup
gravy train
gray birch
gray body
gray colors and pigments
gray dogwood
gray duck
gray eminence
gray fox
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray sour
gray squirrel
gray trout
gray whale
gray with age
gray with fear
gray wolf
gray-barked
gray-bearded
gray-bellied
gray-black
gray-blue
gray-bordered
gray-boughed
gray-breasted
gray-brindled
gray-brown
gray-cheeked
gray-cheeked thrush
gray-clad
gray-colored
gray-crowned
gray-drab
gray-eyed
gray-faced
gray-gowned
gray-green
gray-grown
gray-haired
gray-haired person
gray-headed
gray-headed person
gray-headed woodpecker
gray-hooded
gray-hued
gray-leaf
gray-leaf pine
gray-leaved
gray-lit
gray-mantled
gray-moldering
gray-mustached
gray-necked
gray-speckled
gray-spotted
gray-tailed
gray-tailed cardinal
gray-tinted
gray-toned
gray-twigated
gray-veined
gray-white
gray-winged
grayback beetle
grayback herring
graybeard tree
graying temples
grayish-brown
graylag goose
graze by
graze the surface
grazing country
grazing region
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasing of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great gray owl
great gross
great gun
great guns
great heart
great helm
great honor
great horned owl
great hundred
great lady
great laurel
great lobelia
great man
great mullein
great nettle
great northern diver
great octave
great of heart
great of soul
great one for
great organ
great pace
great pastern bone
great plenty
great point
great power
great pox
great price
great primer
great pyrenees
great ragweed
great reach
great reed
great respect
great rhododendron
great rosebay
great russian
great sallow
great satisfaction
great scale
great scope
great sea
great seal
great skua
great soil group
great soul
great success
great talker
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
great-circle track
great-coat
great-crested
great-eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grandaunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
great-stemmed
great-tailed
great-tailed grackle
great-uncle
great-witted
greater Bairam
greater Ionic
greater and greater
greater celandine
greater city
greater doxology
greater litany
greater multangular bone
greater omentum
greater prairie chicken
greater shearwater
greater weever
greater yellowlegs
greatest common divisor
greatest lower bound
greatest-integer function
greatly daring
greatness of heart
greatness of soul
grebe cloth
greco-
greedy as a hog
greedy eater
greedy guts
greedy-gut
greek catholic
greek cross
greek fire
greek orthodox
green Chartreuse
green June beetle
green alga
green algae
green apple
green as grass
green bag
green ball
green bass
green bean
green belt
green blindness
green book
green card
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-bag
green-banded
green-barked
green-barked acacia
green-belt
green-black
green-blind
green-blue
green-bodied
green-boled
green-bordered
green-bottle fly
green-boughed
green-breasted
green-breasted pheasant
green-clad
green-crested
green-cross gas
green-cross shell
green- curtained
green-decked
green-ear disease
green-edged
green-embroidered
green-eyed
green-eyed jealousy
green-eyed monster
green-faced
green-feathered
green-fish
green-flowered
green-fly
green-fringed
green-garbed
green-gilled
green-glazed
green-gold
green-gray
green-grown
green-haied
green-headed
green-headed widgeon
green-house
green-hued
green-leaved
green-legged
green-mantled
green-peak
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-twined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
greta green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grid battery
grid bias
grid capacitor
grid circuit
grid condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grid-glow tube
grid-seal tube
gridle cake
gridle valve
gridiron drainage
gridiron pendulum
gridiron valve
gridiron-tailed lizard
grief dull
grief oppressed
grief-bowed
grief-distraught
grief-exhausted
grief-inspired
grief-scored
grief-shot
grief-stricken
grief-worn
grievance committee
grieve for
grieve over
grieve with
grievous bodily harm
griffin-beaked
griffin-guarded
griffin-winged
g riffon vulture
g riffon-vulture
g rigrri man
grilled cheese sandwich
g rim reality
g rim reaper
g rim-cheeked
g rim-eyed
g rim-faced
g rim-featured
g rim-frowning
g rim-grinning
g rim-looking
g rim-set
g rim-visaged
g rime at
g rimm's law
g rimi-handed
g rin and abide
g rin and bear it
g rin at
g rin like a Cheshire cat
g rin like a chessy-cat
g grind down
g grind on
g grind organ
g grind to dust
g grind to powder
g grind whale
g grind your teeth
g grindery warehouse
g grinding halt
g grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grdindle stone
grinning skull
grip block
grip car
grip of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
gizzly bear
gizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
groin point
groin rib
groin vault
grommet nut
groo-groo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de naples
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived
gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground forces
ground form
ground game
ground gas
ground glass
ground gold-flower
ground goldenrod
ground goldflower
ground grue
ground hard and fast
ground hemlock
ground hog
ground holly
ground honeysuckle
ground ice
ground itch
ground ivory flower
ground ivy
ground jasmine
ground joist
ground juniper
ground lag
ground landlord
ground lark
ground laurel
ground layer
ground lead
ground lease
ground lemon
ground level
ground lily
ground line
ground liverwort
ground lizard
ground log
ground loop
ground mahogany
ground mail
ground mallow
ground maple
ground meristem
ground mine
ground mold
ground moss
ground net
ground noise
ground note
ground oak
ground observer
ground on
ground out
ground owl
ground parakeet
ground parrot
ground pea
ground pearl
ground pig
ground pigeon
ground pike
ground pine
ground pink
ground pistachio
ground plan
ground plane
ground plate
ground plum
ground provisions
ground puppy
ground radar
ground raspberry
ground rat
ground rattan
ground rattler
ground rent
ground rent insurance
ground robin
ground roller
ground rope
ground round
ground row
ground rule
ground rules
ground saligot
ground school
ground sea
ground seal
ground shark
ground shield
ground skidder
ground sloth
ground sluice
ground snake
ground sparrow
ground speed
ground squirrel
ground staff
ground starling
ground state
ground strake
ground stroke
ground substance
ground sweet
ground swell
ground table
ground tackle
ground test
ground tester
ground thistle
ground thrush
ground tier
ground timbers
ground tissue
ground tit
ground tone
ground tow
ground track
ground troops
ground vine
ground warbler
ground water
ground wave
ground ways
ground willow
ground wire
ground worm
ground wren
ground yew
ground your arms
ground zero
ground-ash
ground-attack fighter
ground-bait
ground-bird
ground-cherry
ground-control approach
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
group payment
group policy
group practice
group pressure
group psychology
group psychotherapy
group rate
group relations training
group representation
group sensitivity training
group shot
group test
group theory
group therapy
group velocity
group will
group with operators
group work
group-connect
group-conscious
grouper pea
groups of languages
grouse disease
grouse locust
grount box
grount-head
grountlock brick
grove mast
grove palm
grove spar
grove tree
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grow to
grow together
grow up
grow weaker
grow weary
grow worse
growing degree-day
growing like a mushroom
growing lush
growing old
growing pains
growing point
growing rank
growing season
growing up
growl at
grown man
grown old
grown up
grown woman
grown-up
grown-upness
growth factor
growth force
growth form
growth fund
growth hormone
growth regulator
growth ring
growth shares
growth stock
grozing iron
grozing-iron
gru-gru
grub ax
grub beam
grub hoe
grub hook
grub out
grub plank
grub saw
grub screw
guard hair
guard line
guard lock
guard mount
guard mounting
guard of honor
guard pin
guard plate
guard report
guard ring
guard room
guard ship
guard wire
guard your honor
guard's van
guard-boat
guard-fish
guard-house
guard-rail
guard-room
guard-ship
guarda-costa
guarded secret
guardhouse lawyer
guardian ad litem
guardian angel
guardian spirit
guardroom table
guava apple
guayabera shirt
guayule rubber
gucki grand
gucki nullo
gudgeon pin
guelder rose
guelder-rose
guerre a mort
guerre a outrance
guerre de plume
guerrilla tactics
guerrilla theater
guerrilla warfare
guess right
guess-rope
guess-warp
guess-work
guest flag
guest house
guest of honor
guest pass
guest right
guest room
guest rope
guest ticket
guest-chamber
guest-robe
guest-warp
guet-apens
guide block
guide card
guide center
guide dog
guide flag
guide fossil
guide left
guide meridian
guide mill
guide one's ear
guide pennant
guide pulley
guide rail
guide right
guide rope
guide word
guide yourself
guide-book
guide-post
guided control
guided missile
guided missile cruiser
guided wave
guider-in
guiding light
guiding principle
guiding principles
guiding star
guiding telescope
guild merchant
guild socialism
guild socialist
guild tree
guild-brother
guild-hall
guild-socialistic
guillotine amputation
guillotine shears
guilt offering
guilt-feelings
guilty act
guilty conscience
guilty verdict
guilty-cup
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroides
gum aloes
gum ammoniac
gum angico
gum anime
gum animi
gum arabic
gum archipin
gum benjamin
gum benzoin
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum dammar
gum disease
gum dragon
gum duct
gum elastic
gum elemi
gum euphorbium
gum flux
gum foam
gum galbanum
gum gattie
gum guaiac
gum guaiacam
gum guaiacum
gum guttae
gum hashab
gum juniper
gum kauri
gum kino
gum labdanum
gum mastic
gum mogador
gum myrrh
gum nut
gum olibanum
gum opoponax
gum plant
gum pocket
gum rash
gum resin
gum resins
gum rosin
gum sagapenum
gum sandarac
gum savakin
gum shellac
gum shiraz
gum silk
gum soap
gum spirit
gum spirits
gum spot
gum stick
gum storax
gum succory
gum sugar
gum thus
gum tragacanth
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
gum-lac insect
gum-myrtle
gum-resinous
gum-saline
gum-shrub
gum-top
gum-top tree
gum-tree
gumbo grass
gumbo lily
gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gumbly bird
gummed up
gumming disease
gumming spade
gummy-legged
gunsheo man
gun assembler
gun barrel
gun bearer
gun boat
gun bore
gun breech
gun brig
gun captain
gun carriage
gun chamber
gun crew
gun deck
gun director
gun dog
gun down
gun emplacement
gun fight
gun fighter
gun fighting
gun firing
gun for
gun forger
gun forging
gun glaze
gun iron
gun lathe
gun loader
gun locksmith
gun makes
gun metal
gun moll
gun money
gun mount
gun park
gun parts
gun pendulum
gun pit
gun platform
gun power
gun room
gun sight
gun slide
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
gung ho
gung-ho
gunk hole
gunnery mission
gunnery oficer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gunny-bag
gunong api
gunpowder hammer
gunpowder tea
guns and launchers
gunstock stile
gunter iron
gunter lug
gunter rig
gunter's chain
gurgeon stopper
gurgina balsam
guri bori
gurjun balsam
guru nut
gush out
gush over
gushing rain
gusset plate
gusset stay
gussied up
gussy up
gustatory cell
gustatory delightfulness
gut course
gut reaction
gut response
gut spinner
gut with fire
gut-ache
gute Nacht
guten Abend
guten Morgen
guten Tag
gutless wonder
gutta balata
gutta dujan
gutta gamba
gutta gerip
gutta hangkang
gutta jangkar
gutta jelutong
gutta ketapang
gutta percha
gutta puan
gutta rosacea
gutta rosea
gutta sangei
gutta semarum
gutta serena
gutta siak
gutta singarip
gutta soh
gutta sundek
gutta sundik
gutta susu
gutta taban puteh
gutta-gum
gutta-gum tree
gutta-percha
guttae band
gutter press
gutter stick
gutter tree
gutter-blood
gutter-bred
gutter-grubbing
gutter-snipe
guttering trowel
gutturo-
guy cap
guy fawkes day
guy rope
gy-
gyle-fat
gym pants
gym shoe
gym shoes
gym suit
gyym-
gymnastic exercises
gymno-
gyn-
gynaeco-
gynandro-
gynec-
gyneco-
gyno-
gynocardia oil
gyp artist
gyp joint
gyp-room
gypsum burner
gypsum pink
gypsum plaster
gypsy capstan
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subjiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hack hammer
hack house
hack it
hack out a deal
hack saw
hack watch
hack writer
hack-
hack-me-tack
hack-work
hacking coat
hacking jacket
hacking knife
hacking out a deal
hackle fly
hackney carriage
hackney chair
hackney coach
hackney pony
hackney-carriage
hackney-chair
hackney-coach
hackney-man
hackneyed expression
hackneyed saying
hacksaw fern
had best
had better
had it
had rather
haem-
haema-
haemat-
haemato-
haemato-crystallin
haemato-globulin
haemo-
haemorrhagic measles
hag clog
hag moth
hag-boat
hag-ridden
hag-taper
hagi-
hagio-
haikwan tael
hail and speak
hail fellow
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dyer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hair restorer
hair ribbon
hair salt
hair seal
hair sheep
hair shirt
hair sieve
hair slide
hair snake
hair sofa
hair sorter
hair space
hair straightener
hair stroke
hair stylist
hair tonic
hair trigger
hair trunk
hair wash
hair washer
hair waver
hair's-breadth
hair-branch tree
hair-check
hair-checking
hair-drawn
hair-drier
hair-fibered
hair-grass
hair-lace
hair-line
hair-lip
hair-powder
hair-raiser
hair-raising
hair-shirt
hair-sieve
hair-splitter
hair-splitting
hair-stemmed
hair-streak
hair-stroke
hair-trigger
hair-waving
hair-worm
hairbreadth escape
hairbrush cactus
haircap moss
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-eared
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half a mo
half a second
half a shake
half after
half an eye
half an idea
half anatropous
half angel
half armor
half asleep
half aunt
half ball
half believe
half binding
half bird
half bishop
half block
half blood
half board
half boot
half boots
half brau
half broad
half brother
half bull
half butt
half cadence
half cent
half chronometer
half circle
half close
half cloth
half cock
half column
half cone
half court
half cousin
half cross stitch
half crown
half curlew
half cushion
half davit
half deck
half dime
half diphthong
half dollar
half eagle
half facet
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half snipe
half sol
half sole
half sovereign
half space
half speed
half step
half stitch
half stock
half story
half stuff
half term
half tide
half timber
half time
half tint
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor
half-ashamed
half-ashamedly
half-asleep
half-assed
half-awake
half-backed
half-baked
half-bald
half-ball
half-banked
half-baptize
half-barbarian
half-bare
half-barrel
half-beak
half-beam
half-begging
half-begun
half-belief
half-believed
half-believing
half-bent
half-binding
half-bleached
half-blind
half-blind joint
half-blindly
half-blood
half-blooded
half-blown
half-blue
half-board
half-boiled
half-boiling
half-boot
half-bound
half-bowl
half-breadth plan
half-bred
half-breed
half-brilliant cut
half-broken
half-brother
half-buried
half-burned
half-burning
half-bushel
half-butt
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-congealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convinced
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-deprecatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-divinely
half-dollar
half-done
half-door
half-dozen
half-dram
half-dressed
half-dressedness
half-dried
half-drowned
half-drowning
half-drunk
half-drunken
half-dug
half-dying
half-eagle
half-earnest
half-earnestly
half-eaten
half-ebb
half-educated
half-embraced
half-embracing
half-embracingly
half-enamored
half-enforced
half-erased
half-evaporated
half-evaporating
half-evergreen
half-expectant
half-expectantly
half-exploited
half-exposed
half-face
half-face view
half-faced
half-false
half-famished
half-farthing
half-fascinated
half-fascinating
half-fascinatingly
half-fed
half-feminine
half-fertile
half-fertilely
half-fictitious
half-fictitiously
half-filled
half-finished
half-firkin
half-fish
half-flattered
half-flattering
half-flatteringly
half-flood
half-florin
half-folded
half-foot
half-forgiven
half-forgotten
half-formed
half-forward
half-frowning
half-frowningly
half-frozen
half-fulfilled
half-fulfilling
half-full
half-furnished
half-gallon
half-gill
half-god
half-great
half-grown
half-guinea
half-hard
half-hardy
half-harvested
half-headed
half-healed
half-heard
half-hearted
half-heathen
half-hidden
half-hitch
half-holiday
half-hollow
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingeniously
half-ingenuous
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intoned
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-liter
half-lived
half-lives
half-long
half-looper
half-lop
half-lunatic
half-lunged
half-mad
half-made
half-madly
half-madness
half-marked
half-marrow
half-mast
half-masticated
half-matured
half-meant
half-measure
half-melted
half-mental
half-mentally
half-merited
half-miler
half-minded
half-minute
half-minute glass
half-miseducated
half-misunderstood
half-mitten
half-monitor
half-monthly
half-moon
half-moral
half-mourning
half-mumbled
half-mummified
half-naked
half-nelson
half-nephew
half-niece
half-noble
half-normal
half-normally
half-note
half-numb
half-nylon
half-obliterated
half-offended
half-on
half-one
half-open
half-opened
half-oriental
half-orphan
half-oval
half-oxidized
half-pace
half-pay
half-peck
half-petrified
half-pike
half-pint
half-pipe
half-pitch
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-provocative
half-quarter
half-quartern
half-quarterpace
half-questioning
half-questioningly
half-quire
half-quixotic
half-quixotically
half-radical
half-radically
half-rater
half-raw
half-rayon
half-reactionary
half-read
half-reasonable
half-reasonably
half-reasoning
half-rebellious
half-rebelliously
half-reclaimed
half-reclined
half-reclining
half-refined
half-regained
half-reluctant
half-reluctantly
half-remonstrant
half-repentant
half-republican
half-retinal
half-revealed
half-reversed
half-rhyme
half-right
half-ripe
half-ripened
half-roasted
half-rod
half-romantic
half-romantically
half-rotted
half-rotten
half-round
half-round file
half-rueful
half-ruefully
half-ruined
half-run
half-russia
half-sagittate
half-savage
half-savagely
half-saved
half-seal
half-seas over
half-seas-over
half-second
half-section
half-seen
half-sensed
half-serious
half-seriously
half-severed
half-shade
half-shamed
half-share
half-shared
half-sheathed
half-shoddy
half-shot
half-shouted
half-shroud
half-shrub
half-shrubby
half-shut
half-shy
half-shyly
half-sib
half-sibling
half-sighted
half-sightedly
half-sightedness
half-silk
half-sinking
half-sister
half-size
half-sleeve
half-sleeved
half-slip
half-smile
half-smiling
half-smilingly
half-smothered
half-snipe
half-sole
half-soled
half-solid
half-soling
half-souled
half-sovereign
half-spoonful
half-spun
half-squadron
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e'en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hand level
hand line
hand list
hand log
hand loom
hand lotion
hand luggage
hand mast
hand mill
hand miller
hand milling machine
hand miner
hand mirror
hand mixer
hand molder
hand money
hand mule
hand of death
hand of friendship
hand of glory
hand of writ
hand off
hand on
hand orchis
hand organ
hand out
hand over
hand over fist
hand over hand
hand over head
hand over your sword
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand's-breadth
hand-ax
hand-ball
hand-barrow
hand-beaten
hand-blocked
hand-blown
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-lopped
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indentation
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hanky-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
hapl-
haplo-
haploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard drink
hard drinker
hard drug
hard fact
hard feelings
hard fern
hard fescue
hard frost
hard goods
hard grass
hard grind
hard ground
hard hat
hard head
hard heart
hard image
hard information
hard job
hard knocks
hard labor
hard labour
hard landing
hard lay
hard lead
hard life
hard line
hard lines
hard liquor
hard look
hard lot
hard luck
hard man with a buck
hard maple
hard market
hard mass
hard masse
hard master
hard money
hard news
hard nut to crack
hard oat grass
hard of belief
hard of hearing
hard of heart
hard on
hard on the eyes
hard over
hard palate
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favoredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-haired
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-shelled
hard-skinned
hard-spirited
hard-spun
hard-surface
hard-surged
hard-swear
hard-tack
hard-timbered
hard-trotting
hard-tube pulser
hard-upness
hard-uppishness
hard-used
hard-visaged
hard-wearing
hard-witted
hard-won
hard-wooded
hard-worked
hard-working
hard-wrought
hard-wrung
harden off
harden up
harden your heart
hardening of the arteries
hardhead sponge
hardly a chance
hardly any
hardly anything
hardly ever
hardly expect
hardly like
hardly possible
hardly the thing
hardly touch
hardly wait
hardness of hearing
hardness of heart
hardness scale
hardtop convertible
hardware cloth
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariali grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harpy-bat
harpy-eagle
harpy-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
harsh-looking
harsh-mannered
harsh-sounding
harsh-syllabled
harsh-tongued
harsh-voiced
hart beest
hart clover
hart thorn
hart's tongue
hart's-tongue
harts-tongue
hartshorn bush
hartshorn plant
hartshorn plantain
harum-scarum
harum-scarumness
harvest bell
harvest bug
harvest dinner
harvest doll
harvest festival
harvest fish
harvest fly
harvest home
harvest lady
harvest lily
harvest lord
harvest louse
harvest mite
harvest month
harvest moon
harvest mother
harvest mouse
harvest queen
harvest spider
harvest supper
harvest tick
harvest time
harvest work
harvest worker
harvest yarn
harvest-bug
harvest-field
harvest-lice
harvester ant
harvester-thresher
harvesting ant
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
hatch boat
hatch box
hatch coamings
hatch deck
hatch mast
hatch money
hatch tackle
hatch up
hatch-boat
hatchet cactus
hatchet door
hatchet face
hatchet job
hatchet man
hatchet planimeter
hatchet stake
hatchet vetch
hatchet-faced
hatchet-shaped
hatching spine
hatching station
hate sheet
hate yourself for your actions
hated thing
hatha-yoga
hatted kit
haughty airs
haul around
haul down
haul down your colors
haul down your flag
haul in with
haul into court
haul off
haul over the coals
haul round
haul the wind
haul to
haul up
haul your wind
haulage incline
hauling down
haunch bone
haunch-bone
haunt the memory
haunt your thoughts
haunted with fear
hausse-col
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
hautbois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity
have place
have play
have plenty of time
have plenty on the ball
have power
have power over
have preference
have prestige
have priority
have proof
have pull
have qualms
have quite enough
have rather
have recourse to
have regard for
have repercussions
have reservations
have run its course
have run out
have savvy
have scruples
have second thoughts
have seen better days
have seen your best days
have seen your day
have sex
have sexual relations
have simple faith in
have smarts
have someone on
have something
have something laid by
have something on
have something on the ball
have something on the brain
have something to draw on
have sown your wild oats
have sternway on
have subject
have suction
have suffrage
have suspicions
have tenure
have tenure of
have tenure of appointment
have that or nothing
have the advantage of
have the appearance of
have the ascendancy
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
have your hand in the till
have your hands full
have your hands in
have your hands tied
have your head screwed on right
have your heart bleed for
have your heart in your mouth
have your heart set against
have your heart set on
have your innings
have your measure
have your moments
have your monkey up
have your name in lights
have your nerve
have your nose out of joint
have your number
have your options eliminated
have your options reduced
have your own way
have your period
have your place in the sun
have your revenge
have your say
have your time
have your way
have your will
have your wits about you
have-been
have-not
have-nots
have-nots, the
haven cap
ever-corn
haves, the
havey-cavey
havildar major
having a baby
having a block for a head
having a part
having a share
having a voice
having and holding
having cotton between the ears
having life
having title to
haw tree
haw-haw
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barricade
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottiles
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
hazy recollection
he-all
he-balsam
he-broom
he-cabbage-tree
he-goat
he-he!
he-heather
he-holly
he-huckleberries
he-huckleberry
he-man
he-mannish
he-men
he-oak
head and front of your offending
head and head
head and shoulders
head arrangement
head away from
head betony
head blight
head block
head butt
head cold
head collar
head count
head covering
head deformation
head earing
head fast
head flume
head fold
head for
head for blue water
head for the bottom
head form
head gate
head harness
head house
head index
head into
head joint
head kidney
head knee
head lamp
head lettuce
head log
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakeroot
heart starter
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
heart-fallen
heart-fashioned
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rending
heart-rendingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wringing
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat equivalent
heat exchange
heat exchanger
heat exhaustion
heat factor
heat fever
heat lamp
heat lightning
heat nodules
heat of condensation
heat of fusion
heat of solidification
heat of sublimation
heat of vaporization
heat potential
heat prostration
heat pump
heat rash
heat ray
heat regulator
heat reservoir
heat rigor
heat science
heat seeker
heat shield
heat sink
heat spectrum
heat spot
heat sum
heat the economy
heat therapy
heat treating
heat treatment
heat unit
heat up
heat up the economy
heat wave
heat weight
heat-absorbing
heat-conducting
heat-cracked
heat-drop
heat-engine cycle
heat-forming
heat-full fire
heat-giving
heat-island
heat-killed
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poul
heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
eaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven-given
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heaven-protected
heaven-reaching
heaven-rendering
heaven-sent
heaven-sprung
heaven-sweet
heaven-taught
heaven-threatening
heaven-touched
heaven-warring
heaven-wide
heavenly bamboo
heavenly being
heavenly body
heavenly fruit
heavenly hierarchy
heavenly host
heavenly kingdom
heavenly-minded
heavenly-mindedness
heavens and earth
heavenward tree
heaver-off
heaver-out
heaver-over
heavier-than-air
heavier-than-air craft
heaviness of heart
heaving aloft
heaving pile
heaving up
heaving-line bend
heaviside layer
heavy artillery
heavy as lead
heavy blow
heavy bomber
heavy chemicals
heavy cream
heavy cruiser
heavy demand
heavy dew
heavy dragoon
heavy drinker
heavy drinking
heavy earth
heavy eyelids
heavy field artillery
heavy force fit
heavy hand
heavy harmony
heavy heart
heavy hydrogen
heavy lead
heavy meal
heavy metal
heavy mineral oil
heavy nitrogen
heavy object
heavy oil
heavy on
heavy oxygen
heavy particle
heavy particle counter
heavy pine
heavy platinum group
heavy purse
heavy rain
heavy right foot
heavy sea
heavy sin
heavy sky
heavy sledding
heavy sleep
heavy smoker
heavy solution
heavy spar
heavy swell
heavy thinking
heavy transport
heavy water
heavy weather
heavy wet
heavy wine
heavy with child
heavy with meaning
heavy with significance
heavy with sleep
heavy with young
heavy-armed
heavy-bearded
heavy-blossomed
heavy-bodied
heavy-boned
heavy-booted
heavy-boughed
heavy-drinking
heavy-duty
heavy- eared
heavy-eyed
heavy-faced
heavy- featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy- fruited
heavy-gaited
heavy-handed
heavy-handedly
heavy-handledness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-mettled
heavy-mouthed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
hedge brasher
hedge knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
hedged about
hedged about by
hedged by
hedged in
hedged-in
hedgehog aloe
hedgehog cactus
hedgehog caterpillar
hedgehog coneflower
hedgehog gourd
hedgehog grass
hedgehog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
heejeebies
hee-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heirress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astraboard
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmeted guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
help out
help to
help up
help yourself to
helped by
helping along
helping hand
helter-skelter
helter-skelteriness
helve hammer
hem and haw
hem in
hem-
hem-stitch
hema-
hemat-
hematin crystals
hematin paste
hematite red
hemato-
hematocrit value
hematogenic shock
hemi-
hemi-elytrum
hemi-type
hemispherico-conical
hemispherico-conoid
hemlock fir
hemlock parsley
hemlock pitch
hemlock spruce
hemlock-leaved
hemmed in
hemmed-in
hemming-in
hemo-
hemolymph gland
hemolytic anemia
hemophilia A
hemophilia B
hemophilia C
hemophilic arthritis
hemorrhagic measles
hemorrhagic plague
hemorrhagic septicemia
hemp agrimony
hemp nettle
hemp oil
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendeca-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
herald's trumpet
heraldic device
heraldic heiress
heraldic insignia
heraldic knot
heraldic official
heraldic officials
heralds' college
herb Christopher
herb Gerard
herb Paris
herb Robert
herb bennet
herb doctor
herb john
herb of grace
herb paris
herb patience
herb robert
herb-grace
herb-woman
herbaceous border
herbs Paris
herbs Robert
herbs patience
hercules beetle
hercules' club
hercules'-club
herd instinct
herd together
herd's grass
herd's-grass
herd-book
herd-boy
herd-grass
herd-groom
here and now
here and there
here and there in
here and there on
here below
here lies
here today and gone tomorrow
here's good luck
here's how
here's looking at you
here's mud in your eye
here's to absent friends
here's to you
here-hence
hereafter, the
hereditary character
hereditary disease
heriot service
herky-jerky
hermaphrodite brig
hermaphrodite caliper
hermaphrodite duct
hermaphrodite schooner
hermes trismegistus
hermetically sealed
hermit crab
hermit crow
hermit order
hermit thrush
hermit warbler
hermo-
hermosa pink
hernio-
hero sandwich
hero worship
hero-shiped
hero-shipping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshipping
heroi-comic
heroic act
heroic age
heroic couplet
heroic deed
heroic legend
heroic myth
heroic poetry
heroic stanza
heroic tenor
heroic verse
heron's-bill
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hic et ubique
hic jacet
hic-cough
hiccius doccius
hiccup-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruitied
hidden-veined
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high fulham
high german
high glee
high goal
high grade
high growth rate
high hand
high hat
high heaven
high holiday
high hopes
high horse
high hurdles
high ideals
high income
high iron
high jinks
high jump
high jumper
high king
high life
high light
high liver
high living
high lope
high mass
high mightiness
high milling
high muck-a-muck
high noon
high old time
high on the hog
high order
high pitch
high place
high places
high point
high polymer
high pressure
high price
high price tag
high prices
high priest
high priesthood
high principles
high proof
high purpose
high rank
high regard
high relief
high renaissance
high repute
high road
high rod
high roller
high school
high schooler
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-boiling
high-boned
high-born
high-breasted
high-bred
high-brow
high-browed
high-browish
high-browishly
high-browism
high-built
high-button shoes
high-caliber
high-calorie diet
high-camp
high-case
high-caste
high-ceiled
high-ceilinged
high-churchman
high-class
high-climber
high-climbing
high-collared
high-colored
high-coloured
high-complexioned
high-compression
high-count
high-crested
high-crowned
high-cut
high-density
high-duty
high-elbowed
high-embowed
high-energy particle
high-explosive
high-explosive charge
high-explosive shell
high-falutin
high-faluting
high-fated
high-feathered
high-fed
high-fidelity
high-fidelity speaker
high-fidelity system
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-grade ore
high-grade stock
high-grown
high-handed
high-handedly
high-handedness
high-hat
high-hat cymbals
high-hatted
high-hattedness
high-hatter
high-hattiness
high-hatting
high-hatty
high-headed
high-heaped
high-hearted
high-heel
high-heeled
high-hoe
high-holder
high-hole
high-horned
high-hung
high-intensity lamp
high-judging
high-key
high-keyed
high-level
high-level language
high-level talk
high-lineaged
high-lived
high-living
high-lone
high-low
high-low-jack
high-lows
high-lying
high-mettled
high-minded
high-mindedly
high-mindedness
high-motived
high-mounted
high-mounting
high-mu tube
high-muck-a
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-pooped
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
high-warp
high-water
high-water mark
high-water pants
high-water shrub
high-wing monoplane
high-wire artist
high-wrought
highball glass
highbush blueberry
highbush huckleberry
higher algebra
higher apsis
higher arithmetic
higher criticism
higher echelons
higher education
higher fungus
higher mathematics
higher-up
higher-ups
highest category
highest common factor
highest degree
highest pitch
highest point
highest type
highest-ranking
highfalutin ways
highfaluting ways
highland cranberry
highland cudweed
highland fling
highlight halftone
highly colored imagination
highly considered
highly emotional
highly esteemed
highly regarded
highly reputed
highly respectable
highly satisfied
highly strung
highly touted
highly-wrought
highs sounding
hightail it
highly-tighty
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hillbilly music
hillock tree
hillside plow
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
historical painting
historical present
historical present tense
historical records
historical school
historical truth
historico-
historico-ethical
history is bunk
history is merely gossip
history of ideas
history of printing
histrionic art
hit a clinker
hit a clip
hit a nerve
hit a slump
hit a sour note
hit a streak of luck
hit against
hit and miss
hit and run
hit at
hit back at
hit batsman
hit below the belt
hit bottom
hit for
hit home
hit it
hit it big
hit it off
hit it off with
hit it on the nose
hit like lightning
hit man
hit off
hit off on
hit on
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skip
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary eld
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hoary-white
hob ferret
hob tap
hob-and-nob
hob-nob
hob-thrush
hobble skirt
hobble-bush
hobbling pilot
hobby shop
hobby-horse
hobnail glass
hobnailed shoes
hobnob with
hobo camp
hobo jungle
hobson’s choice
hobson-jobson
hoc anno
hoc est
hock a tchainik
hock cockle
hock leg
hock shop
hock-cart
hock-day
hockey cart
hockey gloves
hockey skate
hockey skates
hockey stick
hocking ale
hocus-pocus
hocus-pocused
hocus-pocusing
hocus-pocussed
hocus-pocussing
hod carrier
hoddy-doddy
hodge-podge
hodge-pudding
hodgkin's disease
hoe culture
hoe drill
hoe in
hoe into
hoe-cake
hoe-plough
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-mouthed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hogger pump
hogging-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitiness
hoity-toity
hoity-toityism
hoity-toyness
hoke act
hoke comic
hoke up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold conference
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
holdup man
hole card
hole in one
hole in the heart
hole in the wall
hole out
hole to creep out of
hole up
hole-and-comer
hole-and-corner
hole-high
hole-in-corner
holes in
holey dollar
holiday camp
holiday-maker
holiday-making
holier than the Pope
holier-than-thou
holistic approach
holistic medicine
hollandaise sauce
holler out
hollo after
hollow back
hollow heart
hollow horn
hollow hunger
hollow man
hollow mockery
hollow newel
hollow organ
hollow out
hollow pretense
hollow sea
hollow shell
hollow threat
hollow truce
hollow ware
hollow-back
hollow-backed
hollow-billed
hollow-cheeked
hollow-chested
hollow-eyed
hollow-footed
hollow-forged
hollow-forging
hollow-fronted
hollow-ground
hollow-hearted
hollow-horned
hollow-jawed
hollow-pointed
hollow-root
hollow-toned
hollow-toothed
hollow-vaulted
hollow-voiced
hollow-ware
holly fern
holly green
holly oak
holly-green
holly-leaved
hollyhock anthracnose
hollyhock fungus
hollyhock rust
hollywood bed
holm cock
holm oak
holm thrush
holm tree
holm-oak
holm-tree
holo-
holocrine gland
holographic will
holstein-friesian
holster pipe
holus-bolus
holy Christ
holy Christmas
holy Moses
holy bread
holy cats
holy city
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
holy father
holy fire
holy ghost
holy grail
holy grass
holy hour
holy innocents' day
holy joe
holy land
holy mackerel
holy man
holy matrimony
holy mess
holy of holies
holy office
holy oil
holy order
holy orders
holy place
holy rite
holy roller
holy roman empire
holy rood
holy saturday
holy see
holy shit
holy smoke
holy spirit
holy stone
holy synod
holy table
holy terror
holy thistle
holy thursday
holy tide
holy war
holy water
holy water sprinkle
holy water sprinkler
holy wedlock
holy week
holy well
holy writ
holy year
holy-day
holy-minded
holy-mindedness
holy-water basin
holy-water font
holy-water sprinkler
holy-water stoup
hom-
hom-address
home appliance
home base
home brew
home builder
home circle
home defense army
home dweller
home economics
home economist
home free
home fried potatoes
home fries
home front
home furnishings
home guard
home in on
home is where you start
home life
home mission
home missionary
home office
home on
home permanent
home place
home plate
home range
home reserve
home reserves
home roof
home room
home rule
home ruler
home run
home sheltered
home signal
home station
home stretch
home study
home sweet home
home teacher
home thrust
home tie
home town
home towner
home truth
home-
home-abiding
home-along
home-baked
home-born
home-bred
home-brew
home-brewed
home-bringing
home-building
home-built
home-come
home-coming
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-sickness
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac
homing device
homing guidance
homing pigeon
homing rocket
homing torpedo
hominy grits
homme de cour
homme moyen sensuel
homo faber
homo sapiens
homo signorum
homo-
homo-hetero-analysis
homo-organ
homoeo-
homogeneous coordinates
homogeneous reactor
homogenized milk
homogentisic acid
homoi-
homoio-
homologous chromosomes
homologous vaccine
homolographic projection
homolosine projection
homolytic fission
homonymous construction
homosexual marriage
homosexual neurosis
homothetic transformation
hone for
honest as the day is long
honest injun
honest man
honest person
honest sweat
honest woman
honest-to-God
honey ant
honey badger
honey bag
honey ball
honey balm
honey bear
honey beige
honey bell
honey bird
honey blond
honey bottle
honey bread
honey bunch
honey buzzard
honey cake
honey cherry
honey child
honey clover
honey creeper
honey crisp
honey eater
honey extractor
honey fly
honey fungus
honey garlic
honey gilding
honey gland
honey grass
honey guide
honey jack
honey kite
honey locust
honey lotus
honey maker
honey making
honey mesquite
honey moth
honey mouse
honey mushroom
honey palm
honey plant
honey ratel
honey sac
honey stomach
honey tree
honey tube
honey up
honey vine
honey weasel
honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honey-buzzard
honey-color
honey-colored
honey-dew
honey-drop
honey-dropping
honey-eater
honey-eating
honey-flower
honey-flowing
honey-gathering
honey-guide
honey-heavy
honey-laden
honey-loaded
honey-month
honey-mouthed
honey-pot
honey-secreting
honey-stalks
honey-steeped
honey-stone
honey-stored
honey-storing
honey-sweet
honey-tasting
honey-tongued
honey-voiced
honey-yielding
honeycomb coral
honeycomb isinglass
honeycomb moth
honeycomb radiator
honeycomb ringworm
honeycomb sponge
honeycomb stitch
honeycomb stomach
honeycomb tripe
honeycomb work
honeydew melon
honeyed phrases
honeyed tongue
honeyed words
honeymoon bridge
honesuckle apple
honesuckle clover
honesuckle family
honesuckle grass
honesuckle ornament
honesuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hooked on
hooked rug
hookem-snivey
hooker-off
hooker-on
hooker-out
hooker-over
hooker-up
hookup wire
hookworm disease
hooky-crooky
hoop ash
hoop back
hoop bundler
hoop iron
hoop petticoat
hoop pine
hoop shell
hoop skirt
hoop snake
hoop tension
hoop tree
hoop willow
hoop withe
hoop-back
hoop-coop plant
hoop-la
hoop-petticoat
hoop-petticoat narcissus
hoop-shaped
hoop-stick
hooping-cough
hoopla campaign
hoosier town
hoot owl
hoot toot
hootchie-kootchie
hootchy-kootch
hootchy-kootchies
hootchy-koootchy
hootchy-kootchy show
hoover apron
hop along
hop aphid
hop back
hop borer
hop clover
hop dog
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o'-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horizon glass
horizontal axis
horizontal bar
horizontal deflector
horizontal engine
horizontal fault
horizontal fire
horizontal line
horizontal mobility
horizontal parallax
horizontal plane
horizontal projection
horizontal stabilizer
horizontal synchronizer
horizontal synchronizing pulse
horizontal union
hormic psychology
hornic theory
horn alligator
horn arrester
horn balance
horn bar
horn bowsprit
horn bug
horn chestnut
horn die
horn fly
horn gap
horn gate
horn in
horn knot
horn lead
horn of Amalthea
horn of plenty
horn ore
horn player
horn poppy
horn pout
horn pox
horn reflector
horn silver
horn timber
horn-book
horn-eyed
horn-fish
horn-footed
horn-mad
horn-madness
horn-owl
horn-plate
horn-rimmed
horn-rimmed glasses
horn-rims
horn-shaped
horn-silver
horn-wood
hornbill cuckoo
hornblende schist
hornblende-gabbro
horned dinosaur
horned lark
horned lizard
horned owl
horned poppy
horned pout
horned rattlesnake
horned screamer
horned snake
horned toad
horned viper
horned whiff
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-struck
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boat
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse trainer
horse training
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
horseshoe back
horseshoe bat
horseshoe crab
horseshoe kidney
horseshoe magnet
horseshoe nail
horseshoe snake
horseshoe-shaped
horsetail agaric
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggety
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-air
hot-air artist
hot-air balloon
hot-air engine
hot-air heat
hot-air heating
hot-air treatment
hot-air-heat
hot-air-heated
hot-blast
hot-blast system
hot-blooded
hot-bloodedness
hot-brain
hot-breathed
hot-bright
hot-broached
hot-bulb engine
hot-cathode tube
hot-cold
hot-deck
hot-dip coating
hot-dipped
hot-dog
hot-dog stand
hot-draw
hot-drawing
hot-drawn
hot-drew
hot-dry
hot-eyed
hot-foot
hot-forged
hot-galvanize
hot-gospeller
hot-headed
hot-hoof
hot-house
hot-house plant
hot-humid
hot-livered
hot-metal typesetting
hot-mettled
hot-mix
hot-moist
hot-pot
hot-press
hot-presser
hot-punched
hot-roll
hot-rolled
hot-short
hot-shortness
hot-shot
hot-spirited
hot-spot
hot-spotted
hot-spotting
hot-stomached
hot-stove league
hot-swage
hot-tempered
hot-vulcanized
hot-water bag
hot-water bottle
hot-water cylinder
hot-water fit
hot-water heater
hot-water heating
hot-water pipe
hot-water-heat
hot-water-heated
hot-windy
hot-wire
hot-wire meter
hot-wire microphone
hot-work
hot-work steel
hotbed sash
hotel broker
hotel detective
hotel lock
hotel manager
hotel rack
hothouse lamb
hotsy-totsy
hotted up
hough-sinew
hound dog
hound on
hound to destruction
hound's tooth
hound's-tongue
hound's-tooth
hound's-tooth check
hound-dog
hound-fish
hound-marked
hounds-berry
hounds-tooth check
hour after hour
hour angle
hour bell
hour book
hour by hour
hour circle
hour hand
hour line
hour plate
hour stroke
hour watch
hour wheel
hour-circle
hour-glass
hour-long
hourglass figure
hourglass of time
hourglass screw
hourglass spider
hourglass spring
hourglass stomach
hourglass worm
hourglass-shaped
house agent
house and grounds
house and lot
house ant
house arrest
house barge
house built on sand
house car
house cat
house centipede
house chambermaid
house cleaner
house counsel
house crow
house curtain
house decorator
house detective
house dick
house divided against itself
house doctor
house dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house jobber
house knacker
house lights
house manager
house martin
house mosquito
house mouse
house mover
house moving
house of God
house of assembly
house of assignation
house of burgesses
house of cards
house of commons
house of correction
house of death
house of delegates
house of detention
house of ill fame
house of ill repute
house of joy
house of life
house of lords
house of prayer
house of prostitution
house of representatives
house of worship
house organ
house painter
house party
house physician
house place
house plan
house plant
house servant
house slipper
house snake
house sparrow
house staff
house steward
house surgeon
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
hudder-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully gully
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
human mountain
human nature
human paleontology
human race
human rights
human sacrifice
human species
human weakness
human wreck
human-headed
human-interest story
humane letters
humane society
humanistic scholarship
humanistic therapy
humanized vaccine
humanly possible
humanum est errare
humble apology
humble pie
humble plant
humble yourself
humble yourself before
humble-bee
humble-looking
humble-mannered
humble-minded
humble-mindedly
humble-mindedness
humble-spirited
humble-visaged
humbled pride
hunbug-proof
humeral veil
humero-
humero-olecranal
humic acid
humid weather
humidity control
humidity indicator
humidity instrument
humidity wind rose
humidity-proof
humiliate yourself
humite group
hummel corn
humming top
humming-bird
hummingbird moth
hump it
hump speed
hump yard
hump yourself
hump-backed
hump-shaped
hump-shoulder
hump-shouldered
humpback bridge
humpback whale
humpbacked salmon
humped cattle
humpty dumpty
humpty-dumpty
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hunting expedition
hunting ground
hunting horn
hunting knife
hunting leopard
hunting license
hunting lodge
hunting miter
hunting shirt
hunting spider
hunting sword
hunting trip
hunting watch
hunting-ground
huntsman's-cup
hurdle race
hurdle racer
hurdle work
hurdles, the
hurdy-gurdy
hurdy-gurdy man
hurdy-gurdyist
hurl a brickbat
hurl against
hurl at
hurl at the head of
hurl defiance
hurl forth
hurl-bone
hurley stick
hurley-hacket
hurly burly
hurly-burlies
hurly-burly
hurr-bur
hurrah campaign
hurricane bird
hurricane deck
hurricane globe
hurricane house
hurricane hunter
hurricane lamp
hurricane lantern
hurricane signal
hurricane tracking
hurricane warning
hurricane-decked
hurricane-force wind
hurricane-hunter aircraft
hurricane-proof
hurry about
hurry along
hurry away
hurry call
hurry off
hurry on
hurry through
hurry up
hurry-burry
hurry-scurried
hurry-scurry
hurry-scurrying
hurry-scurrying
hurry-up
hurst beech
hurt the feelings
husband and wife
husband your resources
husband-to-be
hush as death
hush money
hush my mouth
hush of night
hush puppy
hush ship
hush shop
hush tube
hush up
hush your mouth
hush-boat
hush-hush
hush-money
hush-up
hushed attention
hushed-up
husk corn
husk tomato
husk-tomato
husking bee
husking glove
husking peg
husky eater
hustings court
hustle out
hustle up
hustle-cap
hut circle
hut-keep
hut-shaped
hutch table
hutia carabali
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic tailgate
hydraulic torque converter
hydraulic-fill dam
hydraulico-
ydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydrophobia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydrotelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hydroxy-
hydroxyacetic acid
hydroxybenzoic acid
hydroxybutyric acid
hydroxyl group
hydroxyl radical
hydroxysuccinic acid
hyena poison
hyena-dog
hyet-
hyetal wind rose
hyeto-
hygr-
hygro-
hyl-
hylo-
hymeneal rites
hymeno-
hymn book
hymn maker
hymn making
hymn of praise
hymn singer
hymn singing
hymn tune
hymn writer
hymn writing
hymn-loving
hymn-tune
hymnal stanza
hyo-
hyodeoxycholic acid
hyodesoxycholic acid
hyoid bone
hyp-
hypabyssal rock
hyped up
hyper-
hyper-Dorian
hyperbaric therapy
hyperbolic function
hyperbolic geometry
hyperboreal blast
hyperborean blast
hyperchromic anemia
hypercomplex number
hyperemesis gravidarum
hyperesthesia theory
hyperfine structure
hyperfocal distance
hypergeometric distribution
hypergeometric equation
hypergeometric function
hyperplastic inflammation
hypersonic speed
hypertensive heart disease
hypertrophic arthritis
hypertrophic inflammation
hyphenated American
hypn-
hypnagogic image
hypno-
hypnotic sleep
hypnotic somnolence
hypnotic suggestion
hypnotic trance
hypoionian mode
hypo-
hypo-alum
hypo-ovarianism
hypoaedolian mode
hypoaantimonic acid
hypochlorous acid
hypochromic anemia
hypocotyl arch
hypocrite plant
hypodermic injection
hypodermic needle
hypodermic syringe
hypodermic tablet
hypodorian mode
hypodynamia cordis
hypogastric artery
hypoglossal nerve
hypoglycemic shock
hypoglycemic shock therapy
hypoid gear
hypoionian mode
hypolocrian mode
hypolydian mode
hypomixolydian mode
hyponitrous acid
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophysis cerebri
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypotheecedated stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyp-
hypsi-
hypo-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysteria libidinosa
hysteria-proof
hysterical aphonia
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysterion proteron
hysterion-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
ia-
iambic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice anchor
ice apron
ice ax
ice axe
ice bag
ice banner
ice barrier
ice beam
ice bear
ice belt
ice bird
ice bridge
ice bucket
ice bulletin
ice calorimeter
ice canoe
ice cap
ice cave
ice chest
ice chipper
ice chopper
ice claw
ice code
ice collar
ice color
ice concrete
ice cream
ice creeper
ice crusher
ice crystal
ice crystals
ice cube
ice cuber
ice cubes
ice cutter
ice dealer
ice dike
ice dock
ice drag
ice duck
ice feathers
ice fern
ice field
ice fish
ice fishing
ice floe
ice flower
ice flowers
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice lead
ice line
ice lolly
ice machine
ice maker
ice making
ice master
ice milk
ice nail
ice needle
ice over
ice pack
ice pail
ice paper
ice partridge
ice pellets
ice period
ice petrel
ice pick
ice pillar
ice pilot
ice pink
ice pinnacle
ice plant
ice plow
ice point
ice raft
ice rain
ice rampart
ice rink
ice river
ice run
ice scraper
ice shaver
ice shed
ice sheet
ice shelf
ice ship
ice show
ice skate
ice skates
ice skating
ice sky
ice spar
ice spur
ice stick
ice storm
ice stream
ice ton
ice tongs
ice tongue
ice up
ice water
ice whale
ice yacht
ice yachting
ice yachtsman
ice-bird
ice-blind
ice-boat
ice-bolt
ice-bound
ice-breaker
ice-breaking
ice-brook
ice-built
ice-cap
ice-capped
ice-chipping
ice-clad
ice-cold
ice-cool
ice-cooled
ice-covered
ice-cream
ice-cream cone
ice-cream fork
ice-cream freezer
ice-cream soda
ice-cream sundae
ice-crushing
ice-crusted
ice-cube
ice-cube machine
ice-cubing
ice-cutting
ice-encrusted
ice-enveloped
ice-fall
ice-field
icy pole
icy wind
icy-cold
id est
idea afloat
idea man
idea of pure reason
idea of reference
idea, the
ideal element
ideal gas
ideal gas equation or law
ideal gas law
ideal of pure reason
ideal point
ideal specific impulse
ideal type
idee fixe
idee-force
idee-maitresse
identical equation
identical proposition
identical rhyme
identical same
identical twin
identical twins
identification badge
identification bracelet
identification light
identification mark
identification parade
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
idiot board
idiot box
idiot card
idiot savant
idiot savants
idiot sheet
idiot stitch
idiot work
idiot's delight
idiotic grin
idiots savants
idle away
idle away time
idle chat
idle chatter
idle chatterer
idle current
idle fancy
idle gear
idle gossip
idle hands
idle hours
idle pulley
idle rich
idle talk
idle threat
idle wheel
idle-brained
idle-handed
idle-headed
idle-looking
idle-minded
idle-pated
idle-witted
idler gear
idler pulley
idler wheel
idol breaker
idol worship
idol worshiper
idol worshiping
idols of the cave
idols of the forum
idols of the market place
idols of the theater
idols of the tribe
idonic acid
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius’ bean
igneous rock
ignes fatui
igni-
ignis fatuous
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignobile vulgus
ignominious defeat
ignoratio elenchii
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-faried
ill-faring
ill-faringly
ill-fashionied
ill-fated
ill-fated life
ill-fatedness
ill-favor
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friend
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-gotten
ill-gotten gains
ill-governed
ill-greeting
ill-grounded
ill-hap
ill-headed
ill-health
ill-housed
ill-humor
ill-humored
ill-humored person
ill-humored woman
ill-humoredly
ill-humoredness
ill-humoured
ill-humouredly
ill-humouredness
ill-imagined
ill-informed
ill-intentioned
ill-invented
ill-joined
ill-judge
ill-judged
ill-judging
ill-kempt
ill-kept
ill-knotted
ill-less
ill-lighted
ill-limbed
ill-lit
ill-lived
ill-looked
ill-looking
ill-lookingness
ill-made
ill-manageable
ill-managed
ill-mannered
ill-manneredly
ill-manneredness
ill-mannerly
ill-marked
ill-matched
ill-mated
ill-meant
ill-met
ill-minded
ill-mindedly
ill-mindedness
ill-natured
ill-naturedly
ill-naturedness
ill-neighboring
ill-noised
ill-nurtured
ill-observant
ill-occupied
ill-omened
ill-omenedness
ill-paid
ill-perfuming
ill-persuaded
ill-placed
ill-pleased
ill-proportioned
ill-provided
ill-qualified
ill-regulated
ill-requite
ill-requited
ill-resounding
ill-rewarded
ill-roasted
ill-rulled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeeding
ill-suited
ill-suiting
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-willie
ill-willing
ill-willy
ill-wish
ill-wisher
ill-won
ill-worded
ill-written
ill-wrought
ill-yoked
illegal commerce
illegal operations
illegal traffic
illegible handwriting
illegitimate business
illegitimate child
illicit business
illicit businessman
illicit love
illepe butter
illiterate speech
ills the flesh is heir to
illuminating engineer
illuminating engineering
illuminating gas
illuminating oil
illuminating projectile
illupi oil
illusion-proof
im-
image breaker
image breaking
image converter
image dissector
image iconoscope
image intensifier
image orthicon
image space
image tube
image worship
image-breaker
image-breaking
image-maker
image-matched input resistance
image-matched output resistance
image-worship
imageless thought
imagery study
imaginal bud
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbibition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imido group
imido radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermilion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolate before
immortal hand
immortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
immunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
imperial eagle
imperial elephant
imperial gallon
imperial jade
imperial mammoth
imperial moth
imperial octavo
imperial purple
imperial quarto
impress upon the mind
impressed by
impressed with
impressed with yourself
improper fraction
improper integral
improper suggestion
improve each shining hour
improve on
improve the mind
improve the occasion
improve the shining hour
improve upon
improve your mind
improvement lease
improvement purchase
improving the mind
improvisational drama
imprudent step
impudent person
impulse buying
impulse duct engine
impulse excitation
impulse face
impulse movement
impulse of life
impulse recorder
impulse roller
impulse transformer
impulse turbine
impurity atom
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a fury of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a passion
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all soberness
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbed
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in conformity with the evidence
in conformity with the facts
in confrontation
in confusion
in conjunction
in conjunction with
in connection with
in conscience
in consequence
in consequence of
in consideration
in consideration of
in consternation
in consultation
in contact
in contact with
in contemplation of
in contemt
in contempt of
in contradiction
in contrast with
in control
in cooperation
in cooperation with
in corpore
in correspondence to
in corroboration of
in costume
in council
in course of preparation
in court
in crowds
in curve
in custody
in danger
in danger imminent
in danger of
in darkness
in days of yore
in debate
in debt
in deep
in deep water
in default
in default of
in defense
in deference to
in defiance of
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disarray
in dispute
in disrepair
in disrepute
in distress
in double harness
in double time
in double-quick time
in doubt
in driblets
in dribs and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrassed circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in fine
in fine feather
in fine fettle
in fine shape
in fine whack
in fits and starts
in flagrante delicto
in flames
in flat opposition
in flight
in flood
in flower
in focus
in for it
in force
in foreign parts
in forma pauperis
in frame
in front
in front of
in full
in full bloom
in full cry
in full dress
in full feather
in full force
in full measure
in full sail
in full swing
in full view
in fun
in funds
in furtherance of
in future
in futuro
in gear
in general
in general terms
in glory
in glowing terms
in good case
in good condition
in good earnest
in good faith
in good form
in good health
in good heart
in good odor
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in less than no time
in letters of fire
in lieu
in lieu of
in like manner
in limine
in line
in line of duty
in line with
in liquor
in litigation
in little
in loc cit
in lock-step with
in loco
in loco parentis
in longhand
in lots
in love
in love with
in low gear
in low relief
in low spirits
in luck
in lure
in luxury
in majority
in many instances
in march time
in measure
in medias res
in medium
in mem
in memoriam
in memory of
in mesh
in mid
in mid-progress
in miniature
in mint condition
in moderation
in mortal fear
in mothballs
in motion
in mourning
in must
in naked beauty more adorned
in name only
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in praesenti
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in process
in production
in profusion
in progress
in proper season
in proper time
in proportion
in propria persona
in prose
in prospect
in public
in public view
in purdah
in puris naturalibus
in pursuance of
in pursuit
in pursuit of
in quantities
in quantity
in quest of
in question
in quick succession
in rags
in range
in rapid succession
in rapport
in raptures
in re
in readiness
in ready state
in reality
in reason
in rebuttal
in receivership
in reciprocation
in recompense
in red letters
in reduced circumstances
in reference to
in regard to
in relation to
in relation with
in relief
in rem
in remembrance
in remembrance of
in remission
in repair
in reparation
in reply
in reprisal
in requital
in rerum natura
in reserve
in residence
in respect of
in respect that
in respect to
in response
in restitution
in retaliation
in retirement
in retreat
in retribution
in retrospect
in return
in revenge
in reverse
in reward
in rhythm
in rivalry
in rotation
in round numbers
in round terms
in ruins
in russet mantle clad
in rut
in sackcloth and ashes
in saecula saeculorum
in safety
in sail
in scorn
in search of
in season
in season and out of season
in seclusion
in secrecy
in secret
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in series
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in shreds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smitereens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support of
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doldrums
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the news
in the nick of time
in the night
in the nursery
in the offing
in the old days
in the olden time
in the open
in the open air
in the opinion of
in the oven
in the past
in the pink
in the pink of condition
in the pipeline
in the place of
in the plenitude of power
in the presence of
in the process of
in the process of time
in the public eye
in the raw
in the rear
in the red
in the remote distance
in the right
in the rough
in the saddle
in the same boat
in the same breath
in the same category
in the same manner
in the same way as
in the same words
in the second instance
in the second place
in the secret
in the semblance of
in the sequel
in the service of
in the shade
in the shadow of a rock
in the singular
in the small
in the soup
in the spotlight
in the state of nature
in the stead of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-
in-and-in
in-and-out
in-and-out bond
in-and-outer
in-beaming
in-being
in-between
in-bond shop
in-book
in-breeding
in-built
in-calf
in-car
in-clearer
in-clearing
in-clerk
in-co-ordinate
in-co-ordinated
in-co-ordination
in-crowd
in-dimension
in-fighting
in-flight
in-flight refueling
in-flight refueling tanker
in-flight training
in-goal
in-going
in-group
in-house
in-knee
in-kneed
in-law
in-laws
in-lb
in-lean
in-line
in-line engine
in-lot
in-marriage
in-migrant
in-migrate
in-migration
in-off
in-patient
in-phase
in-plant
in-quarto
in-sail
in-service
in-service training
in-the-wool
in-to-out
in-toed
in-tray
inability to believe
inactive market
inactive stock
inactive war
inadequate personality
inalienable right
inanimate matter
inasmuch as
inaugural address
inauguration day
inboard profile
inboard-outboard motor
inboard-rigged
inborn aptitude
inborn capacity
inborn predisposition
inborn proclivity
inborn susceptibility
inborn tendency
incandescent body
incandescent electric lamp
incandescent lamp
incandescent light
incandescent lighting
incandescent mantle
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
increment borer
incremental plotter
incremental recorder
incremental repetition
increscent moon
incriminate yourself
incriminating evidence
incubation patch
incubation period
incubator baby
incubator bird
incumbent on
incumbent upon
incur a debt
incur a responsibility
incur costs
incur danger
incur discredit
incur disesteem
incur disgrace
incur dishonor
incur expenses
incur loss
ind-
indanthrene blue
inde blue
indebted to
indecent assault
indecent exposure
indecent proposal
indefinite article
indefinite integral
indefinite number
indefinite pronoun
indefinite quantities
indefinite space
indelibly impressed
indelibly impressed on the mind
indelicate language
indemnity bond
indentured servant
independence day
independence of path
independent assortment
independent clause
independent of
independent of your will
independent school
independent variable
independent-seconds watch
independently rich
independently wealthy
indeterminacy principle
indeterminate sentence
index bar
index card
index center
index correction
index crank
index error
index expurgatorius
index finger
index forest
index fossil
index glass
index hand
index head
index mark
index notation
index number
index of refraction
index per cent
index pin
index plane
index plate
index sector
index set
index-linked
indi-
india ink
india paper
india rubber
india-rubber
indian club
indian corn
indian fig
indian file
indian giver
indian hemp
indian ink
indian licorice
indian meal
indian paintbrush
indian pipe
indian pudding
indian red
indian sign
indian summer
indian tobacco
indian turnip
indicated horsepower
indicating control switch
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
indirect object
indirect power
indirect primary
indirect proof
indirect question
indirect speech
indirect tax
indisposed to believe
indisposed to communicate
indisposed to talk
indisposition to speak
indisputable evidence
indisputable fact
indistinct speech
individual essence
individual identity
individual liberty
individual medley
individual psychology
individual responsibility
individual retirement account
individual speech competence
individual speech habits
individual speech performance
indo-
indo-aryan
indo-chinese
indo-european
indo-european languages
indo-german
indo-germanic
indo-hittite
indo-iranian
indoleacetic acid
indolebutyric acid
indomitable sea
indoor baseball
indoor-outdoor carpeting
indorse, indorsement
induced current
induced drag
induced radioactivity
induced topology
inductance coil
inductance factor
induction accelerator
induction balance
induction bridge
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
industrial park
industrial psychologist
industrial psychology
industrial relations
industrial revolution
industrial school
industrial store
industrial union
industrial worker
industrial zone
inequil-
inert gas
inertia ellipsoid
inertia governor
inertia selling
inertia transmission
inertia-reel seat-belt
inertial guidance
inertial guidance system
inertial mass
inertial navigation
inertial navigation system
inertial reference frame
inertial space
inertial system
inescapable fact
inevitable accident
inevitably narrative
inexpiable sin
inextensive deformation
infant prodigy
infant school
infant-school
infantile amnesia
infantile fixation
infantile paralysis
infantile sexuality
infantry combat
infantry tactics
infants' school
infants' wear
infatuated with
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English
informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
ingratiate yourself with
inguino-
inhabitants of Pandemonium
inhalation tuberculosis
inhale snuff
inhale spasmodically
inharmonious harmony
inhere in
inherent authority
inherent immunity
inherent power
inherent stability
inherent vice
inheritance factor
inheritance tax
inherited immunity
inhibit your desires
inhibiting antibody
initial rhyme
initial stability
initiation fee
inject in
inject yourself into
injection grid
injection method
injection-gneiss
injure your reputation
injury benefit
injury of your reputation
injury time
injury to your reputation
injury-proof
ink bag
ink ball
ink bell
ink black
ink bottle
ink bottler
ink cap
ink cartridge
ink disease
ink eradicator
ink eraser
ink fountain
ink gall
ink grinder
ink in
ink knife
ink maker
ink malady
ink marble
ink mixer
ink mushroom
ink nut
ink pad
ink plant
ink printer
ink roller
ink sac
ink spiller
ink spilling
ink up
ink-berry
ink-black
ink-blurred
ink-cap
ink-carrying
ink-colored
ink-distributing
ink-dropping
ink-slab
ink-spotted
ink-stained
ink-wasting
ink-writing
ink-written
inkblot test
inkhorn term
inking bell
inking roller
inky cap
inky-black
inland bill
inland marine insurance
inland sea
inland waters
inlay graft
inlying picket
inmost heart
inmost mind
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
insignia of rank
insincere argument
insinuate in
insinuate yourself
insinuate yourself into
insist on
insist upon
insistent demand
insofar as
insolvency statute
insolvent debtor
insomnia-proof
insomuch as
inspect the books
inspection chamber
inspection gauge
inspector general
inspector of taxes
inspire belief
inspire confidence
inspire hope
inspire respect
inspired leader
inspiriting force
inspiriting power
inspiriting principle
instability line
installment bond
installment buying
installment credit
installment loan
installment mortgage
installment plan
installment selling
instance court
instance side
instant replay
instantaneous sound pressure
instead of
instinct for
instinct with life
institute an inquiry
institute of technology
institution of higher learning
instruction card
instruction-proof
instrument board
instrument carrier
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
instrument light
instrument of execution
instrument of punishment
instrument of torture
instrument panel
instrument rocket
instrument servo
instrument transformer
instrumental conditioning
instrumental logic
instrumental music
instrumental score
instruments of
instruments of destruction
insubstantial image
insufficiency of the valves
insufficient funds
insulating tape
insulation resistance
insulin reaction
insulin shock
insulin shock therapy
insurance adjuster
insurance agent
insurance auditor
insurance broker
insurance canvasser
insurance clerk
insurance collector
insurance company
insurance examiner
insurance man
insurance messenger
insurance patrol
insurance policy
insurance reserve
insurance salesman
insurance solicitor
insurance tester
insurance traveler
insurance underwriter
insuring clause
insusceptible of change
intaglio printing
intaglio rilevato
intaglio rilievo
intake manifold
intake valve
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data process
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-'varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
intercalary meristem
intercardinal point
interception radar
interchange of speech
interchange of views
interchangeable bond
intercommunication system
intercosmic space
interdict list
interdiction bombing
interdiction fire
interdisciplinary knowledge
interesse termini
interest group
interest in
interest inventory
interest lottery
interest payment
interest rate
interests of
interfacial tension
interfaith marriage
interfere with
interference color
interference drag
interference figure
interference fit
interference microscope
interference microscopy
interference pattern
interference phenomenon
interference spectrum
interference-proof
intergalactic distance
intergalactic matter
intergalactic space
interim bond
interim certificate
interim dividend
interior angle
interior ballistics
interior decorating
interior decoration
interior decorator
interior design
interior designer
interior drainage
interior man
interior mapping
interior monologue
interior paint
interior planet
interior point
interior polygon
interior side
interior slope
interior-sprung
interjection point
interlaced scanning
interlacing arcade
interlibrary loan
interline rate
interlinear translation
interlocking directorate
interlocking directorates
interlocutory decree
intermediate agent
intermediate card
intermediate frequency
intermediate host
intermediate period
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
interno-
internuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpretive semantics
interquartile range
interracial marriage
interrogation mark
interrogation point
interrogator-responsor
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-mercurial
intra-urban
intra-urethral
intra-uterine
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intraterine device
intravenous drip
intravenous therapy
intrazonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
invisible glass
invisible hand
invisible helper
invisible ink
invisible painting
invisible radiation
invisible shadow
invitation to combat
invitational race
invite attention
invite ridicule
invocation of saints
invocatory plea
invocatory prayer
invoke benefits upon
involuntary cooperation
involuntary impulse
involuntary muscle
involuntary presence
involuntary servitude
involute teeth
involute-leaved
involutional melancholia
involutional psychosis
involve in
involve the interest
involve with
involve yourself
involved in
involved in debt
inward light
inward monitor
inward-bound
inward-flow turbine
io moth
io-
iod-
iodic acid
iodine absorption
iodine bush
iodine pentoxide
iodine scarlet
iodine value
iodine weed
iodo-
iodobehenic acid
ion chamber
ion counter
ion engine
ion exchange
ion propulsion
ion propulsior
ion rocket
ionic bond
ionic conduction
ionization chamber
ionization constant
ionization current
ionization gauge
ionization potential
ionizing event
ionizing radiation
ionospheric wave
iota subscript
ipecac spurge
ippi-appa
ipse dixit
ipsissima verba
ipsissimis verbis
ipso facto
ipso jure
ir-
irid-
iridescent seaweed
iridium black
irido-
iris blue
iris diaphragm
iris family
iris green
iris mauve
iris shutter
iris stop
iris-in
iris-out
irish bull
irish coffee
irish moss
irish setter
irish terrier
irish water spaniel
irish wolfhound
irish-gaelic
iron age
iron alum
iron ammonium oxalate
iron bacteria
iron blue
iron boot
iron brick
iron brown
iron buff
iron bullet
iron calker
iron carbide
iron carbonate
iron caster
iron cement
iron chloride
iron citrate
iron clay
iron coating
iron concrete
iron corer
iron crow
iron curtain
iron deficiency anemia
iron discharger
iron dog
iron family
iron filing
iron fitter
iron forger
iron founder
iron foundry
iron gang
iron glance
iron grass
iron gray
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron spinel
iron sponge
iron stand
iron stretcher
iron sulfate
iron sulphate
iron sulphide
iron tree
iron trichloride
iron trimmer
iron vit
iron vitriol
iron will
iron yellow
iron-banded
iron-bark
iron-barred
iron-black
iron-blue dun
iron-blue spinner
iron-bound
iron-boweled
iron-braced
iron-branded
iron-burnt
iron-calked
iron-capped
iron-cased
iron-clenched
iron-coated
iron-colored
iron-core transformer
iron-cored
iron-curtain country
iron-enameled
iron-faced
iron-fastened
iron-forged
iron-founder
iron-free
iron-gloved
iron-grated
iron-gray
iron-grey
iron-guarded
iron-handed
iron-hard
iron-hearted
iron-heartedly
iron-heartedness
iron-heeled
iron-hooped
iron-jawed
iron-jointed
iron-knotted
iron-lined
iron-man
iron-marked
iron-mine
iron-mold
iron-mooded
iron-mould
iron-nailed
iron-nerved
iron-ore
iron-oxide red
iron-pated
iron-railed
iron-red
iron-ribbed
iron-riveted
iron-sand
iron-sceptered
iron-sheathed
iron-sick
iron-souled
iron-spotted
iron-stained
iron-stapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
iron-witted
iron-worded
ironbark acacia
ironbark box
ironbound coast
ironbound security
ironclad agreement
ironclad oath
ironclad proof
ironclad ram
ironclad reasoning
ironer-up
ironic implication
ironic juxtaposition
ironic suggestion
ironing board
irons in the fire
ironstone china
irony-proof
irradiation therapy
irrational number
irreducible and stubborn facts
irreducible content
irrefutable logic
irregular motion
irregular warfare
irrepressible optimist
irresistible force
irresistible impulse
irresolute person
irrespective of
irrigating shovel
irrigation ditch
irrigation engineer
irrigation engineering
irritable bowel syndrome
irritable heart
irritable man
irritable temper
irritation fever
irritation-proof
is-
is-it
isamine blue
isat-
ischemic heart disease
ischio-
ising-star
island arc
island base
island chain
island continent
island group
island myrtle
island of Langerhans
island of Reil
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of langerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinal line
isoclinic line
isocyanic acid
isocyano group
isocyano radical
isoelectric point
isoganal line
isogonal line
isogonic line
isoionic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporlic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanato group
isothiocyanato radical
isotope therapy
isotopic isobar
isoxyllic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch louse
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-witsy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
ivory brown
ivory carver
ivory carving
ivory cutter
ivory engraver
ivory fluter
ivory gull
ivory hunter
ivory hunting
ivory nut
ivory palm
ivory paper
ivory plant
ivory plum
ivory polisher
ivory porcelain
ivory rounder
ivory slabber
ivory sorter
ivory thumper
ivory tickler
ivory tower
ivory tree
ivory yellow
ivory-backed
ivory-beaked
ivory-billed
ivory-billed woodpecker
ivory-black
ivory-bound
ivory-carving
ivory-faced
ivory-finished
ivory-hafted
ivory-handled
ivory-headed
ivory-hilted
ivory-studded
ivory-tinted
ivory-toned
ivory-tower
ivory-towered
ivory-towerish
ivory-towerishness
ivory-towerism
ivory-towerist
ivory-towerite
ivory-type
ivory-white
ivory-wristed
ivy League
ivy bush
ivy geranium
ivy green
ivy gum
ivy league
ivy tree
ivy vine
ivy-bush
ivy-green
j'y suis j'y reste
jaal goat
jaal-goat
jab at
jacaranda brown
jacitara palm
jack Mormon
jack afloat
jack arch
jack baker
jack bean
jack block
jack boot
jack bowl
jack chain
jack cheese
jack crosstree
jack crosstrees
jack crow
jack curllew
jack dog
jack field
jack frost
jack fruit
jack head
jack hern
jack in
jack johnson
jack ketch
jack ladder
jack lagging
jack lamp
jack lantern
jack light
jack line
jack mackerel
jack nicker
jack oak
jack of all trades
jack pigeon
jack pin
jack pine
jack pit
jack plane
jack plum
jack post
jack pot
jack press
jack rabbit
jack rafter
jack rib
jack rod
jack roll
jack rope
jack saddle
jack salmon
jack shave
jack spinner
jack spring
jack staff
jack stop
jack stretcher
jack stringer
jack timber
jack towel
jack tree
jack truss
jack up
jack worm
jack yard
jack-a-dandies
jack-a-dandy
jack-a-dandyism
jack-a-lent
jack-at-a-pinch
jack-boot
jack-booted
jack-boy
jack-by-the-hedge
jack-chain
jack-frame
jack-fruit
jack-in-a-box
jack-in-a-boxes
jack-in-office
jack-in-the-box
jack-in-the-boxes
jack-in-the-green
jack-in-the-pulpit
jack-in-the-pulpits
jack-knife
jack-line
jack-o'-lantern
jack-o'-lantern
jack-of-all-trades
jack-plane
jack-pudding
jack-rabbit
jack-screw
jack-snipe
jack-spaniard
jack-staff
jack-stone
jack-straw
jack-tar
jack-yarder
jackal buzzard
jackass bark
jackass brig
jackass clover
jackass copal
jackass deer
jackass fish
jackass gunter
jackass hare
jackass kingfisher
jackass penguin
jackass rig
jackass-rigged
jackdaw in peacock's feathers
jacket crown
jackhead pit
jacking engine
jacking-up
jackknife clam
jackknife-fish
janca tree
jane doe
jane-of-apes
jangada fiber
jangada tree
jangle the nerves
jangled nerves
januis clausis
janus geminus
japan allspice
japan clover
japan drier
japan wax
japanese beetle
japanese iris
japanese millet
japanese mink
japanese persimmon
japanese plum
japanese quince
japanese spurge
japanic acid
jar on
jar upon the ear
jar with
jar-bird
jar-burial
jar-owl
jara-assu
jardin anglais
jardin chinois
jardin des plantes
jardins anglais
jardins chinois
jargon aphasia
jargon word
jarring of sounds
jasmine oil
jasmine tea
jasper gray
jasper green
jasper opal
jasper pink
jasper red
jasper ware
jato unit
jaundice berry
jaundice tree
jaundice-eyed
jaundiced eye
jaundiced yellow
jaunting car
jaunting-car
jaunty car
java man
java sparrow
javelin bat
javelin man
javelin throw
javelin thrower
javelin-man
javelle water
jaw bit
jaw clutch
jaw coupling
jaw crusher
jaw jerk
jaw lizard
jaw rope
jaw slide
jaw wrench
jaw's-harp
jaw-bone
jaw-cracking
jaw-fall
jaw-fallen
jaw-locked
jaw-tied
jaw-twister
jaws of death
jay bird
jay blue
jay teal
jay-bird
jay-hawker
jay-vee
jazz band
jazz festival
jazz musician
jazz singer
jazz stick
jazz up
jazzed up
je ne sais quoi
je vous en prie
je vous remercie beaucoup
je-te
jealous-hood
jealous-pated
jealousy-proof
jecoric acid
jedding ax
jeep carrier
jeepers creepers
jeer at
jeer capstan
jefferson davis's birthday
jefferson day
jeffrey pine
jehovah's witnesses
jej-jejun-
jejuno-colostomy
jejuno-ileostomy
jejuno-jejunostomy
jekyll and hyde
jell-o
jellied gasoline
jelly baby
jelly bag
jelly bean
jelly boiler
jelly doughnut
jelly egg
jelly lichen
jelly nut
jelly plant
jelly poke
jelly powder
jelly roll
jelly-fish
jennie harp
jenny ass
jenny cutthroat
jenny howlet
jenny scaffold
jenny winch
jenny wren
jenny yard
jeopardy assessment
jequirity bean
jequirity beans
jerboa kangaroo
jerboa mouse
jerboa rat
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jeux de mots
jew crow
jew down
jew nail
jew's harp
jew's-ear
jew's-harp
jew-fish
jewel block
jewel box
jewel case
jewel smuggling
jewel thief
jewel-block
jewel-bright
jewel-colored
jewel-enshrined
jewel-gleaming
jewel-headed
jewel-house
jewel-loving
jewel-proof
jewel-studded
jeweler's putty
jeweler's rouge
jewelers' putty
jewelers' rouge
jeweller's rouge
jewelry store
jewelweed family
jewish calendar
jews' harp
jews' stone
jews' trump
jib boom
jib cat
jib crane
jib door
jib guy
jib iron
jib martingale
jib netting
jib pole
jib sheet
jib stay
jib topsail
jib traveler
jib-boom
jib-door
jib-headed
jib-header
jib-o-jib
jibber jib
jibber the kibber
jibe all standing
jibe at
jig borer
jig brow
jig bushing
jig button
jig indicator
jig saw
jig-back
jig-drill
jig-file
john-apple
Johnny cake
Johnny house
Johnny reb
Johnny-cake
Johnny-jump-up
Johnny-on-the-spot
Johnson grass
Joie de vivre
Join Maths
Join battle
Join battle with
Join forces
Join fortunes with
Join hands
Join hands with
Join in
Join in a conversation
Join in fellowship
Join in holy wedlock
Join in marriage
Join in the chorus
Join issue
Join issue upon
Join the angels
Join the choir invisible
Join the great majority
Join the majority
Join the opposition
Join the parade
Join together
Join up
Join up with
Join with
Join your ancestors
Join your fortunes with
Join yourself to
Join yourself with
Joiner
Joiner bulkhead
Joiner door
Joiner hardware
Joiner work
Joining of forces
Joining-hand
Joint account
Joint and last survivor annuity
Joint bar
joint bond
joint box
joint chair
joint chairmanship
joint clay
joint committee
joint control
joint density function
joint discussion
joint effort
joint filler
joint fir
joint gap
joint grass
joint heir
joint hinge
joint ill
joint life annuity
joint life insurance
joint making
joint operation
joint operations
joint ownership
joint pin
joint rate
joint resolution
joint return
joint runner
joint rust
joint sensation
joint sense
joint session
joint snake
joint stock
joint stool
joint tenancy
joint wire
joint-bedded
joint-ring
joint-stock association
joint-stock company
joint-stockism
joint-stool
joint-tenant
joint-worm
jointer plane
jointing plane
joke with whiskers
joy-deserted
joy-dispelling
joy-encompassed
joy-inspiring
joy-juice
joy-killer
joy-mixed
joy-rapt
joy-resounding
joy-ridden
joy-ride
joy-riding
joy-rode
joy-wrung
ju-jitsu
ju-ju
jubilant display
jubilee indulgence
judaeo-
judas hole
judas tree
judas window
judas-tree
judeo-spanish
judas ordinarious
judas pedaneus
judge advocate
judge advocate general
judge advocate general corps
judge advocate generals
judge advocates
judge advocates general
judge amiss
judge before the evidence is in
judge beforehand
judge delegate
judge not
judge of assize
judge ordinary
judge prematurely
judge's gown
judge's robe
judge-made
judged beforehand
judged prematurely
judges' rules
judgment book
judgment cap
judgment creditor
judgment day
judgment debt
judgment debtor
judgment hall
judgment lien
judgment note
judgment rate
judgment seat
judgment summons
judgment-day
judgment-hall
judgment-proof
judgment-seat
judicial astrology
judicial circuit
judicial conference
judicial murder
judicial oath
judicial process
judicial punishment
judicial review
judicial separation
judo expert
jug band
jug plant
jug wine
jug-bitten
jug-handle
jug-jug
jugal bone
jugal furrow
jugal point
jugged hare
juggler's trick
jugular vein
juice extractor
juice pear
juice up
juicy morsel
jujitsu expert
jujube plum
juke house
juke joint
julian calendar
jumbee bean
jumble sale
jumble together
jumbo jet
jump Computer technol
jump a claim
jump a mile
jump aboard
jump about
jump all over
jump all over someone
jump area
jump at
jump at the bidding of
jump bail
jump ball
jump bid
jump dial
jump discontinuity
jump down your throat
jump frog
jump head
jump in
jump into
jump jet
jump joint
jump leads
jump line
jump off
jump on
jump on the bandwagon
jump out
jump out of your skin
jump over
jump pass
jump ring
jump rope
jump saw
jump scrape
jump seat
jump ship
jump shot
jump spark
jump stroke
jump suit
jump the gun
jump to a conclusion
jump to it
jump turn
jump up
jump weld
jump wire
jump-
jump-hop
jump-off
jump-shift
jump-spark coil
jump-start
jump-up
jumped-up
jumper cable
jumper lead
jumper sled
jumper stay
jumper wire
jumping bean
jumping disease
jumping jack
jumping mouse
jumping pain
jumping plant louse
jumping spider
jumping-off place
jumping-off-place
jumpy as a cat on a hot tin roof
junction box
junction transistor
juncture of events
june beetle
jungle ballot
jungle bear
jungle bendy
jungle bunny
jungle cat
jungle cock
jungle fever
jungle fowl
jungle geranium
jungle green
jungle gym
jungle hen
jungle juice
jungle ox
jungle rice
jungle rot
jungle sheep
jungle warfare
jungle-clad
jungle-covered
jungle-traveling
jungle-walking
jungle-worn
junior barister
junior chamber of commerce
junior college
junior common room
junior counsel
junior high
junior high school
junior leaguer
junior lightweight
junior middleweight
junior miss
junior officer
junior school
junior securities
junior varsity
junior welterweight
juniper bay
juniper berries
juniper berry
juniper cedar
juniper gum tree
juniper oil
juniper tree
juniper webworm
juniper-berry oil
juniper-tar oil
juniperic acid
junk bottle
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
junk room
junk shop
junk yard
junk-bottle
jupiter's beard
jure divino
jure humano
juridical days
juristic act
juristic person
jury box
jury chancellor
jury fixing
jury list
jury mast
jury of inquest
jury of matrons
jury of the vicinage
jury of women
jury of your peers
jury panel
jury process
jury room
jury selection
jury skid
jury trial
jury wheel
jury-
jury-fixer
jury-mast
jury-packing
jury-rig
jury-rigged
jury-rigged expedient
jury-rigging
jury-shy
jury-squaring
jus canonicum
jus civile
jus commune
jus divinum
jus ecclesiasticum
jus gentium
jus inter gentes
jus naturae
jus naturale
jus postliminii
jus primae noctis
jus publicum
jus sanguinis
jus scriptum
jus soli
just a bit
just about
just across the street
just alike
just around the corner
just as predicted
just as you thought
just be
just being
just dandy
just deserts
just do
just enough
just expectation
just folks
just here
just imagine
just in case
just in time
just intonation
just know
just like one
just like that
just next door
just noticeable difference
just now
just once
just opposite
just out
just plain nuts
just right
just see
just so
just the opposite
just the other way
just the other way around
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-slighting
justices in eyre
justifiable abortion
justifiable expectation
justifiable homicide
justification by faith
justification by works
justification space
justify hope
justify one in supposing
justifying space
justitia omnibus
jut out
jut over
jute board
jute butts
jute crusher
jute opener
jute tier
juvenal plumage
juvenile book
juvenile court
juvenile delinquency
juvenile delinquent
juvenile dictionary
juvenile editor
juvenile hormone
juvenile lead
juvenile officer
juxta-ampullar
juxta-articular
juxtapose in opposition
k ration
k'ai shu
k-meson
kA
kCi
kG
kHz
kJ
kMc
kOe
kV
kVA
kVAH
kVAr
kW
kWh
ka-
kaawi yam
kabuto gane
kachang puteh
kachina doll
kad-
kaffee klatsch
kaffir beer
kaffir corn
kafir corn
kai-kai
kailyard school
kainic acid
kairotic moment
kairotic time
kaiser brown
kaiser roll
kaju apple
kako-
kala azar
kala-azar
kalamein work
kale brose
kale gully
kale runt
kale worm
kale-
kaleyard school
kamashimo zashi
kambing utan
kamehameha day
kamic body
kamoot tree
kana-majiri
kanal rays
kangaroo acacia
kangaroo apple
kangaroo bear
kangaroo beetle
kangaroo closure
kangaroo cloture
kangaroo court
kangaroo feathers
kangaroo grass
kangaroo hare
kangaroo jerboa
kangaroo mouse
kangaroo paw
kangaroo rat
kangaroo thorn
kangaroo vine
kangaroo-rat
kans grass
kanya butter
kanya tree
kapok oil
kapok tree
kappa meson
karate expert
karma-marga
karri-tree
karroo bush
kary-
karyo-
kashgar tamarisk
kashmir goat
kat-
kata-
katabatic wind
katsura tree
kauri copal
kauri gum
kauri pine
kauri resin
kava gum
kaw-
kayo punch
keV
kedani fever
kedani mite
kedge anchor
kedge off
kedge-anchor
keekwilee-house
keel and keelson
keel arch
keel batten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen- eared
keen-edged
keen-eyed
keen-nosed
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offing
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep down
keep driving
keep everyone waiting
keep faith
keep faith with
keep fit
keep fresh
keep from
keep from harm
keep from laughing
keep from spreading
keep going
keep guard
keep hands off
keep her so
keep her steady
keep hidden
keep hold of
keep hold of the land
keep hope alive
keep hoping
keep house
keep in
keep in bounds
keep in check
keep in contact with
keep in countenance
keep in custody
keep in detention
keep in formation
keep in hand
keep in ignorance
keep in line
keep in memory
keep in mind
keep in order
keep in practice
keep in reserve
keep in sight
keep in step
keep in store
keep in suspense
keep in the background
keep in the dark
keep in the middle of the road
keep in the right path
keep in touch
keep in touch with
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm's way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep troth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigilant
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kenny method
keno goose
kent cap
kente cloth
kentucky coffee tree
kephalo-
kept down
kept in
kept in remembrance
kept in reserve
kept mistress
kept under
kept woman
kera-
kerat kamel
kerat-
kerato-
kerb drill
kerb market
kerb weight
kerb-stone
kerbstone market
kermes mineral
kermes oak
kern counter
kernel sentence
kernel smut
kernel spot
kerosene heater
kerosene stove
kerry blue terrier
kestner plant
ket-
ketch-rigged
keto form
keto-
keto-enol isomerism
keto-enol tautomerism
ketone alcohol
ketone body
ketone group
ketone radical
kettle base
kettle hat
kettle hole
kettle maker
kettle moraine
kettle net
kettle of fish
kettle stitch
kettle-bottom
kettle-bottomed
kettle-stitch
kew tree
kewpie doll
key bed
key bit
key block
key bolt
key bugle
key case
key chord
key club
key desk
key drift
key file
key filer
key frame
key fruit
key harp
key holder
key horizon
key industry
key line
key man
key money
key move
key of the Nile
key pad
key pattern
key pin
key pipe
key plate
key plug
key punch
key ring
key rocker
key scarf
key seat
key sentence
key signature
key size
key station
key stop
key to
key to the city
key tone
key trait
key trumpet
key up
key word
key-bugle
key-cold
key-drawing
key-note
key-seat rule
keyed up
keyed-up
keyhole limpet
keyhole saw
keyhole urchin
keyman insurance
keynote address
keynote speech
keystone joist
keystone sack
keyway caliper
keyway drill
kg-m
khaki bush
khaki campbell
khaki weed
khaki-clad
khaki-clothed
khaki-colored
khaki-hued
kheu tree
khus-khus
ki-yi
kiabooica wood
kick about
kick against
kick against the pricks
kick around
kick back
kick down the ladder
kick downstairs
kick in
kick in the teeth
kick off
kick off an attack
kick out
kick over
kick over the traces
kick plait
kick plate
kick pleat
kick start
kick starter
kick the air
kick the beam
kick the bucket
kick the clouds
kick the habit
kick the wind
kick turn
kick up
kick up a dust
kick up a hullabaloo
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicksey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fattened calf
kill the slain
kill time
kill two birds with one stone
kill with kindness
kill yourself
kill-
killed-courtsey
kill-cow
kill-crazy
kill-crazy animal
kill-devil
kill-joy
kill-kid
kill-time
kill-wart
killdeer plover
killed bowl
killed spirits
killed-virus vaccine
killer boat
killer whale
killer-diller
killing bottle
killing frost
killing ground
killing pace
killing site
killing time
killy hawk
kiln evaporator
kiln foreman
kiln run brick
kiln scum
kiln-burnt
kiln-dried
kiln-dry
kiln-drying
kilo-
kilo-oersted
kiloelectron volt
kilogram calorie
kilogram-calorie
kilogram-force
kilogram-meter
kilogramme-metre
kilovar-hour
kilovolt-ampere
kilovolt-ampere-hour
kilowatt-hour
kilt pleat
kim-kam
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kinesthetic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
king at arms
king auk
king ball
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's shilling
king's weather
king's yellow
king's-pawn openings
king-bird
king-bolt
king-crab
king-craft
king-cup
king-emperor
king-fish
king-hit
king-killer
king-maker
king-of-arms
king-of-the-herrings
king-of-the-salmon
king-piece
king-pin
king-post
king-post truss
king-ridden
king-size
king-size bed
king-sized
king-whitings
king-whitings
kingdom come
kingdom of God
kingdom of ends
kingdom of glory
kingdom of heaven
kingfisher daisy
kings-of-arms
kip in one's horn
kino gum
kinship group
kip down
kip-ft
kipper-nut
kippered herring
kippered salmon
kirby hook
kirk master
kirk session
kirk skail
kirk-shot
kim baby
kim cut
kislar aga
kiss and make up
kiss cheeks
kiss curl
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one's feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
kitchen servant
kitchen sink
kitchen space
kitchen stuff
kitchen table
kitchen tea
kitchen work
kitchen-midden
kite balloon
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knee-timber
knee-worn
kneed grass
kneel to
kneeling rafter
kneeling stool
knell-like
knick-knack
knife acacia
knife and fork
knife bar
knife bayonet
knife box
knife colter
knife edge
knife file
knife grass
knife grinder
knife key
knife lanyard
knife money
knife plait
knife plaiting
knife pleat
knife poised at your throat
knife rest
knife stone
knife switch
knife tool
knife-backed
knife-bladed
knife-board
knife-edge
knife-edged
knife-featured
knife-grinder
knife-handle
knife-jawed
knife-plaited
knife-point
knife-shaped
knife-striped
knifing tool
knight adventure
knight bachelor
knight bachelors
knight banneret
knight baronet
knight commander
knight cross
knight errant
knight errantry
knight grand commander
knight grand cross
knight marshal
knight of columbus
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it's all about
know what's what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
know-all
know-how
know-it-all
know-little
know-nothing
know-nothingism
know-nothingness
knowledge of the world
knowledge without reason
knowledge without thought
knowledge-gap
known as
known by every schoolboy
known by measurement
known by the name of
known quantity
knuckle ball
knuckle bow
knuckle down
knuckle down to
knuckle gear
knuckle gearing
knuckle guard
knuckle joint
knuckle line
knuckle molding
knuckle pin
knuckle post
knuckle timber
knuckle tip
knuckle to
knuckle tooth
knuckle under
knuckle under to
knuckle-bone
knuckle-deep
knuckle-duster
knuckle-dusters
knuckle-joint
knuckle-joint press
knuckle-kneed
knurl toe
ko-katana
koa finch
koda millet
koh-i-noor
koi-kopal
kok-saghyz
kokra wood
kokum butter
kokum oil
kol nidre
kola nut
kola tree
koloa mapu
koloa moha
komma-ichi-da
kona cyclone
kona storm
konker tree
koppel flute
kosam seeds
kosher soap
kosher wine
kottabos kataktos
kousso flower
kow-tow
kraft paper
kraft process
kraut grass
krebs cycle
krems lead
krenging hook
kriss kringle
kriya-sakti
kriya-shakti
krym-saghyz
kryo-
ku klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujira shaku
kung chih
kung chin
kung ching
kung fen
kung fu
kung-fu
kungu cake
kuo-yu
kuping tael
kurchee bark
kuroshio extension
kuroshio system
kurrof's salt
kuteera gum
kutira gum
kwe-bird
kyano-
kyrie eleison
l'istesso tempo
l'union fait la force
l-
l-arterenol
l-glucose
l-noradrenaline
l-norepinephrine
la carte
la grippe
la guerre
labor turnover
labor under
labor under a disadvantage
labor under a false impression
labor under difficulties
labor union
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimal bone
lacrimual duct
lacrimial gland
lacrimial sac
lacrosse stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies’ fingers
ladies’ gallery
ladies’ man
ladies’ room
ladies’ wear
ladies’-tobacco
ladies’-tobaccoes
ladies’-tobaccos
ladies’-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b'omer
lag behind
lag bolt
lag fault
lag line
lag screw
lag-bed tractor
lager beer
laggen-gird
lagging load
lah-di-dah
laid aside
laid bare
laid batonne
laid deck
laid embroidery
laid low
laid off
laid on the shelf
laid paper
laid up
laid wool
laisser aller
laisser faire
laisser passer
laisser-aller
laisser-faire
laissez aller
laissez faire
laissez passer
laissez-aller
laissez-faire
laissez-faireism
laissez-passer
lait d'amandes
lake basin
lake bass
lake breeze
lake carp
lake chub
lake cress
lake duck
lake dweller
lake dwelling
lake fever
lake fly
lake front
lake herring
lake lawyer
lake minnow
lake of fire and brimstone
lake perch
lake perches
lake pitch
lake plover
lake salmon
lake shad
lake sheepshead
lake shore
lake sturgeon
lake trout
lake water cress
lake whitefish
lake-bound
lake-colored
lake-girt
lake-land
lake-moated
lake-reflected
lake-resounding
lake-surrounded
lakeland terrier
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb's ears
lamb's lettuce
lamb's tails
lamb's tongue
lamb's wool
lamb's-quarters
lamb's-wool
lamb-like
lambda particle
lambdoidal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standart
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblong
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
land shark
land side
land snail
land sole
land spring
land station
land steward
land surveyor
land tax
land tenure
land tie
land tortoise
land trash
land trust
land up
land urchin
land warfare
land-taxer
land-tie
land-value
land-visiting
land-water
land-wind
landed estate
landed gentry
landed interests
landed person
landed property
landfall light
landfall mark
landing angle
landing beach
landing beam
landing card
landing chair
landing clerk
landing craft
landing crew
landing deck
landing edge
landing field
landing flap
landing force
landing gear
landing light
landing lights
landing line
landing net
landing pad
landing party
landing pattern
landing place
landing run
landing ship
landing signalman
landing skis
landing speed
landing stage
landing strake
landing strip
landing surveyor
landing tee
landing waiter
landing wire
landing-direction light
landing-place
landing-waiter
landlocked salmon
landlocked water
landmark beacon
landmark decision
landscape architect
landscape architecture
landscape gardener
landscape gardening
landscape marble
landscape mirror
landscape painting
landslide victory
lane route
lane snapper
lang lay
lang syne
lang-kail
langrage shot
langrel shot
language arts
language laboratory
language study
language style
langue d'o
langue d'oc
langue d'oïl
langue de boeuf
langue de chat
langues de boeuf
languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lantern lily
lantern pinion
lantern ring
lantern shell
lantern slide
lantern sprat
lantern tree
lantern wheel
lantern-jawed
lanthanide series
lanyard knot
lap box coupling
lap dissolve
lap dog
lap dovetail
lap dovetail joint
lap dovetailing
lap game
lap joint
lap link
lap microphone
lap of honour
lap of luxury
lap over
lap pack
lap plate
lap ring
lap riveting
lap robe
lap shaver
lap siding
lap table
lap up
lap weld
lap winding
lap-butted
lap-chart
lap-dog
lap-jointed
lap-lap
lap-love
lap-rivet
lap-streak
laparo-
laparo-uterotomy
laparotomy pack
lapel button
lapel microphone
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-butt joint
lappet caterpillar
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
lapseus calami
lapseus linguae
lapseus memoriae
lapwing gull
larboard watch
larch agaric
larch canker
larch pine
larch sawfly
larch turpentine
lard compound
lard insect
lard oil
lard pig
lard refiner
lard stearin
lard stone
lard type
lard-assed
lardaceous degeneration
larder beetle
lardy cake
lardy-dardy
lares and penates
lares compitales
lares familiaris
lares permarini
lares praestites
lares viales
large amount
large animal
large as life
large black
large calorie
large cane
large cranberry
large heart
large intestine
large meal
large number
large order
large periwinkle
large person
large size
large sum
large thing
large white
large-aced
large-ankled
large-bayed
large-billed
large-bodied
large-boned
large-bore
large-bracted
large-browed
large-built
large-caliber
large-celled
large-crowned
large-diameter
large-drawn
large-eared
large-eyed
large-finned
large-flowered
large-footed
large-framed
large-fronded
large-fruited
large-grown
large-handed
large-handedness
large-headed
large-hearted
large-heartedness
large-hipped
large-horned
large-leaved
large-leaved cucumber tree
large-lettered
large-limbed
large-looking
large-lunged
large-minded
large-mindedly
large-mindedness
large-molded
large-natured
large-necked
large-nostriled
large-petaled
large-rayed
large-scale
large-scaled
large-size
large-sized
large-souled
large-spaced
large-stomached
large-tailed
large-thoughted
large-throated
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
last word
last word, the
last words
last-born
last-cited
last-cyclic
last-ditch
last-ditch fight
last-ditcher
last-erected
last-in
last-in first-out
last-made
last-mentioned
last-minute
last-minute lie
last-named
lastage-free
lasting fame
lasting friendship
latch bolt
latch circuit
latch locking
latch needle
latch on
latch onto
latch-key
latch-string
latchkey child
late arrival
late blight
late bloomer
late developer
late greek
late hour
late in the day
late lamented
late latin
late off the mark
late riser
late wood
late-begun
late-betrayed
late-blooming
late-born
late-built
late-coined
late-come
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateral sail
lateral-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
lateral recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
lateral magnification
lateral meristem
lateral moraine
lateral pass
lateral plane
lateral resistance
lateral stability
lateral system
lateral tangent arc
lateral thinking
lateri-
latero-
latest fad
latest fashion
latest thing
latest thing, the
latest wrinkle
latest-born
latex paint
latex paper
lath and plaster
lath brick
lath cutter
lath maker
lath making
lath nail
lath nailer
lath puncher
lath splitter
lath tier
lath trimmer
lath-backed
lath-legged
lathe chuck
lathe-bore
lather up
lathered up
lathering up
lathing hammer
lathing hatchet
lati-
latin cross
latin quarter
latin square
latissimi dorsi
latissimus dorsi
latitude and longitude
latitude sailing
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavaliere microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law binding
law buckram
law centre
law code
law court
law enforcement agency
law enforcement agent
law hand
law member
law member of a court-martial
law merchant
law of Dulong and Petit
law of Malus
law of action and reaction
law of additivity
law of additive pressures
law of averages
law of conservation of charge
law of conservation of energy
law of conservation of mass
law of contradiction
law of cosines
law of definite composition
law of definite proportions
law of equivalent retaliation
law of excluded middle
law of exponents
law of general application
law of gravitation
law of identity
law of large numbers
law of mass action
law of moses
law of motion
law of multiple proportion
law of multiple proportions
law of nations
law of nature
law of parity
law of parsimony
law of partial pressures
law of reflection
law of refraction
law of retaliation
law of sines
law of succession
law of the domicile
law of the forum
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one's hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
lead up the garden path
lead up to
lead vinegar
lead vitriol
lead weed
lead white
lead you a chase
lead you a pretty dance
lead you to
lead you to expect
lead you to gather
lead you up the garden path
lead-acid battery
lead-blue
lead-burn
lead-burned
lead-burner
lead-burning
lead-chamber process
lead-clad
lead-coated
lead-colored
lead-covered
lead-encased
lead-filled
lead-free gas
lead-gray
lead-hardening
lead-headed
lead-in
lead-in wire
lead-lapped
lead-lead
lead-lined
lead-melting
lead-off
lead-pipe cinch
lead-pulverizing
lead-ruled
lead-sheathed
lead-smelting
lead-tempering
lead-up
leaded bronze
leaded glass
leaden flycatcher
leaden-blue
leaden-colored
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leading article
leading bar
leading block
leading card
leading coefficient
leading edge
leading her mother
leading idea
leading lady
leading light
leading man
leading mark
leading note
leading question
leading reins
leading strings
leading to
leading tone
leading wheel
leading wind
leading wire
leading woman
leadpipe cinch
leaf beet
leaf beetle
leaf bite
leaf blade
leaf blender
leaf blight
leaf blotch
leaf bud
leaf bug
leaf coral
leaf curl
leaf cutting
leaf fall
leaf fat
leaf gold
leaf green
leaf insect
leaf lard
leaf lettuce
leaf metal
leaf metals
leaf miner
leaf mold
leaf monkey
leaf mould
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
lear board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
left-handed compliment
left-handed marriage
left-handedly
left-handedness
left-hander
left-handiness
left-laid
left-lay
left-legged
left-leggedness
left-luggage office
left-off
left-over
left-sided
left-wing
left-wing extremism
left-wing extremist
left-winger
left-wingish
left-wingism
left-eye flounder
leg armor
leg art
leg bail
leg band
leg before
leg before wicket
leg boot
leg break
leg bye
leg drop
leg hit
leg iron
leg it
leg man
leg of lamb
leg of mutton
leg show
leg stump
leg to stand on
leg trap
leg up
leg viol
leg-bail
leg-break
leg-breaker
leg-harness
leg-iron
leg-o'-mutton
leg-of-mutton
leg-of-mutton sail
leg-of-mutton spanker
leg-pull
leg-puller
leg-weary
legacy duty
legal action
legal adviser
legal age
legal agreement
legal aid
legal aid association
legal aid society
legal argument
legal assessor
legal authority
legal bucketing
legal cap
legal case
legal chemistry
legal claim
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
legal possession
legal power
legal practitioner
legal proceedings
legal process
legal profession
legal remedy
legal reserve
legal restraint
legal right
legal right of use
legal rights
legal science
legal securities
legal separation
legal statement
legal summons
legal system
legal tender
legal tribunal
legal weight
legal-size paper
legal-tender note
legalis homo
legally separated
leger line
leghorn straw
legion of honor
legion of merit
legionary ant
legislative assembly
legislative bill
legislative body
legislative caucus
legislative chamber
legislative clause
legislative council
legislative immunity
legislative investigation
legislative lobby
legislative motion
legislative procedure
legislative veto
legitimate drama
legitimate portion
legitimate stage
legitimate succession
legitimate theater
lego-literary
lei day
leio-
leip-
leisure class
leisure suit
leisurely gait
lekai salmon
lem-
lemming mouse
lemon balm
lemon cheese
lemon chrome
lemon cucumber
lemon day lily
lemon drop
lemon geranium
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepid-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter carrier
letter carver
letter caster
letter cutter
letter drop
letter engraver
letter file
letter founding
letter foundry
letter from Uncle Sam
letter hand
letter learning
letter lichen
letter messenger
letter missive
letter name
letter of advice
letter of credence
letter of credit
letter of delegation
letter of introduction
letter of marque
letter of marque and reprisal
letter paper
letter plant
letter porter
letter post
letter press
letter scales
letter sheet
letter sorter
letter stamper
letter stock
letter telegram
letter weigher
letter writer
letter writing
letter-bound
letter-card
letter-copying
letter-duplicating
letter-erasing
leuna saltpeter
lev-
levari facias
levee en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
lever pilot
lever safety valve
lever scales
lever shears
lever tumbler
lever watch
lever-action
lever-action rifle
levin bolt
levin brand
levo camphor
levo-
levo-pinene
levulinic acid
levy a distress
levy blackmail
levy court
levy en masse
levy in mass
levy war on
lew-warm
lewis bolt
lewis gun
lewis iron
lex domicili
lex fori
lex generalis
lex loci
lex mercatoria
lex mercatorum
lex non scripta
lex scripta
lex situs
lex talionis
lex terrae
lexical form
lexical insertion
lexical item
lexical meaning
lexigraphic character
lexigraphic symbol
ley line
ley pewter
leyden jar
leze majesty
liability insurance
liability limit
liability to error
liable to
liable to error
liaise with
liaison plane
liar of the first magnitude
liber cell
liberal arts
liberal education
liberal studies
liberal-arts college
liberal-minded
liberal-mindedness
liberty abused
liberty boat
liberty bodice
liberty cap
liberty green
liberty hall
liberty horse
liberty in tranquillity
liberty of speech
liberty of the press
liberty pole
liberty ship
liberty tea
liberty tree
libidinal energy
libido arrest
libido fixation
libra mayor
library binding
library card
library case
library catalog
library director
library edition
library paste
library school
library science
library steps
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
license tax
licensed pilot
licensed practical nurse
licensed victualer
lich bird
lich fowl
lich gate
lich owl
lich path
lich stone
lich-gate
lich-house
lich-owl
lichen fungus
lichen green
lichen islandicus
lichen primus
lichen tropicus
lichen-clad
lichen-crusted
lichen-grown
lichen-laden
lichenic acid
lick into shape
lick of work
lick one's shoes
lick the dust
lick the feet of
lick the plate
lick the platter
lick to a frazzle
lick your ass
lick your boots
lick your chops
lick your shoes
lick your wounds
lick-dish
lick-finger
lick-foot
lick-ladle
lick-platter
lick-spigot
lick-spittle
licker-in
lickety-brindle
lickety-cut
lickety-split
licking disease
licking stone
licorice fern
licorice powder
licorice root
licorice stick
licorice sugar
licorice vetch
licorice vine
licorice weed
lid cell
lid slit
lidless eye
lidless vigil
lie a course
lie across
lie ahead
lie ahull
lie along
lie along the shore
lie around
lie at the heart
lie at the root of
lie at your door
lie athwart
lie back on your record
lie beam on to the seas
lie beneath
lie by
lie close
lie close to the wind
lie detector
lie doggo
lie dormant
lie down
lie down and roll over for
lie down on the job
lie fallow
lie flat
lie flatly
lie hard upon
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general  
lieutenant governor  
lieutenant junior grade  
lieutenant-colonelcy  
lieutenant-general  
lieutenant-governorship  
life after death  
life and letters  
life annuity  
life arrow  
life assurance  
life belt  
life beyond the grave  
life breath  
life buoy  
life car  
life cast  
life cycle  
life essence  
life estate  
life expectancy  
life float  
life force  
life guard  
life hangs by a thread  
life history  
life instinct  
life insurance  
life interest  
life jacket  
life line  
life mask  
life member  
life net  
life of Riley  
life of Riley, the  
life of ease  
life of riley  
life of the party  
life peer  
life plant  
life preserver  
life principle  
life process  
life raft  
life records  
life ring  
life rocket
life savings
life science
life seen through a temperament
life sentence
life size
life space
life span
life story
life style
life table
life to come
life upon the larger scale
life vest
life zone
life's duration
life's guide
life's work
life-abhorring
life-and-death
life-and-death struggle
life-bearing
life-beaten
life-begetting
life-bereft
life-blood
life-breathing
life-bringing
life-consuming
life-creating
life-crowded
life-deserted
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
life-poisoning
life-preserver
life-preserving
life-prolonging
life-quelling
life-rendering
life-renewing
life-restoring
life-sapping
life-saver
life-serving
life-size
life-sized
life-spent
life-style
life-support system
life-sustaining
life-sweet
life-teeming
life-thirsting
life-tide
life-timer
life-weariness
life-weary
life-while
life-worthy
life-yielding
lifeless matter
lifeless matter found in nature
lifelike image
liferent escheat
lifesaving boat
lifesaving service
lift a finger
lift a hand
lift a hand against
lift bolt
lift bridge
lift component
lift direction
lift force
lift gate
lift hammer
lift off
lift pump
lift ram
lift ratio
lift span
lift temporarily
lift tenter
lift the curtain on
lift the hat
lift the veil
lift truck
lift up
lift up the eyes
lift up the heart
lift up the voice
lift valve
lift van
lift wall
lift wire
lift your hand against
lift your voice
lift-drag ratio
lift-off
lift-off hinge
lift-slab
lifter rod
lifting body
lifting bolt
lifting bridge
lifting day
lifting eye
lifting foot
lifting head
lifting irons
lifting jack
lifting plan
lifting plate
lifting pump
lifting sail
lig-by
ligamentum nuchae
light adaptation
light air
light and shade
light and shade surface
light artillery
light as a feather
light as air
light as any wind that blows
light as day
light as gossamer
light baffle
light battery
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bodied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drab
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
light-haired
light-handed
light-handedly
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
lightning discharge
lightning express
lightning file
lightning gods
lightning pains
lightning protector
lightning rod
lightning saw
lightning speed
lightning stone
lightning switch
lightning tooth
lightning tube
lightning war
lightning-like
lights out
lights-out
lign-
lign-aloes
lignaloe oil
ligni-
ligninsulphonic acid
lignite wax
ligno-
lignosulphonic acid
lignum aloes
lignite wax
ligulate-flowered
liguli-
like Niobe
like Swiss cheese
like a bat out of hell
like a blue streak
like a bolt from the blue
like a book
like a bulldog
like a coward
like a drowned rat
like a fish out of water
like a flash
like a furnace
like a horse in a mill
like a house afire
like a lamb
like a leech
like a lord
like a man
like a prune
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
like wildfire
like---but oh how different
like-eyed
like-fashioned
like-featured
like-looking
like-made
like-minded
like-mindedly
like-mindedness
like-natured
like-persuaded
like-sex
like-shaped
like-sized
liked to
likely lad
likely story
likely to
liken to
likes of
lilac gray
lilac mildew
lilac-banded
lilac-blue
lilac-colored
lilac-flowered
lilac-headed
lilac-mauve
lilac-pink
lilac-purple
lilac-tinted
lilac-violet
lilies of the valley
lilly-low
lilly-pilly
lily bell
lily bellflower
lily bind
lily family
lily flower
lily grass
lily green
lily iron
lily leek
lily liver
lily of the valley
lily pad
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limber-neck
limber-twig pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
lime-kiln
lime-pit
lime-rod
lime-soda mesotype
lime-sulphur
lime-twig
lime-water
lime-white
limette oil
limit condition
limit control
limit gauge
limit man
limit of patience
limit of proportionality
limit of resolution
limit of vision
limit point
limit switch
limit system
limit yourself
limit, the
limit-setting
limited company
limited divorce
limited edition
limited fee simple
limited liability
limited monarchy
limited negative
limited nuclear weapons
limited number
limited owner
limited partner
limited partnership
limited payment insurance
limited policy
limited veto
limited war
limited-liability company
limiting adjective
limiting condition
limiting factor
limiting point
limousine-landaulet
limp as a dishrag
limp-cover book
limpet mine
limping meters
limping standard
limu-eleele
limu-kohu
lin ft
lin tree
lin-lan-lone
linaly acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line cut
line displacement
line drawing
line drive
line drop
line engraver
line engraving
line equation
line gale
line gauge
line geometry
line hunter
line integral
line letter
line loss
line microphone
line of action
line of apsides
line of battle
line of business
line of circumvallation
line of credit
line of defense
line of demarcation
line of departure
line of descent
line of direction
line of duty
line of endeavor
line of fire
line of flight
line of force
line of goods
line of induction
line of march
line of position
line of scrimmage
line of sight
line of sighting
line of site
line of succession
line of thrust
line of type
line of vision
line of work
line officer
line out
line printer
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
line symmetry
line test
line up
line up with
line vector
line voltage
line your pockets
line-bred
line-breed
line-bucker
line-casting
line-engraving
line-firing
line-haul
line-hunting
line-of-battle ship
line-out
line-roll conveyer
line-sequential
line-sequential color television
line-throwing rocket
line-up
lineal measure
lineal promotion
lineal rank
lineal relation
linear accelerator
linear algebra
linear calibrations
linear chromatism
linear chromatist
linear coefficient
linear combination
linear complex
linear content
linear dependence
linear differential equation
linear differential form
linear equation
linear fractional transformation
linear function
linear functional
linear graph
linear independence
linear lead
linear manifold
linear measure
linear measures
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-ovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lines plan
ling cod
ling pink
linga sharira
linger behind
linger on
lingoa wood
lingu-
lingua crioula
link-up
linkage formula
linkage group
linkage groups
linked rhyme
linked to
linked verse
linking r
linking verb
linnet hole
lino tile
lino-typist
linoleic acid
linolenic acid
linoleum block
linoleum knife
linoleum-block print
linoleum-block printing
linolic acid
linotype operator
linseed cake
linseed meal
linseed oil
linseed tea
linsey-woolsey
linsey-wooleys
lint bells
lint bow
lint index
lint-white
lion ant
lion dollar
lion dragon
lion leopard
lion lizard
lion monkey
lion poisson
lion tamer
lion's share
lion-bold
lion-color
lion-drunk
lion-footed
lion-guarded
lion-haunted
lion-headed
lion-heart
lion-hearted
lion-hided
lion-hued
lion-like
lion-maned
lion-mettled
lion-tailed
lion-tailed macaque
lion-tailed monkey
lion-tawny
lion-thoughted
lion-toothed
lip bit
lip comfort
lip comforter
lip devotion
lip fern
lip homage
lip labor
lip loyalty
lip microphone
lip molding
lip plug
lip praise
lip reader
lip reading
lip reverence
lip rouge
lip server
lip service
lip stop
lip strike
lip wisdom
lip worship
lip worshiper
lip-
lip-back
lip-bearded
lip-blushing
lip-born
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
liquor tax
liquor up
liquor-drinking
liquor-loving
liquorice allsorts
lira da braccio
liras da braccio
lire da braccio
lis pendens
lisle hose
lisle thread
lisp in numbers
list of
list of agenda
list pot
list price
list system
listed building
listed securities
listen at
listen in
listen to
listen to reason
listen with both ears
listener-in
listening cam
listening in
listening post
lister cultivator
lister drill
lister planter
lister plough
lister plow
listing machine
lit de justice
lit to the gills
lit up
litany stool
litchi nut
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
litmus paper
litmus test
litter lout
litter-bearer
litterae humaniores
little Joe
little Mary
little Miss Fixit
little angel
little auk
little bear
little bit
little bite
little black ant
little blue heron
little bluestem
little boys' room
little brain
little brother
little brown jug
little bugger
little businessman
little by little
little casino
little chance
little cherub
little darling
little devil
little doll
little egret
little end
little expectation
little fellow
little finger
little game
little girls' room
little good
little grebe
little green man
little gull
little guy
little guys
little hours
little house
little innocent
little kids
little known
little leaf
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little slam
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
little-footed
little-girlish
little-girlishness
little-go
little-haired
little-headed
little-known
little-loved
little-minded
little-mindedness
little-prized
little-read
little-regarded
little-statured
little-trained
little-traveled
little-used
little-worth
little-necked clam
littoral zone
liturgical east
liturgical garments
liturgical music
liturgical north
liturgical south
liturgical west
litz wire
live a cat-and-dog life
live a life of ease
live again
live alone
live and breathe
live and learn
live and let live
live apart
live as man and wife
live at
live beyond your means
live by your wits
live center
live centre
live circuit
live coal
live down
live fast
live for the day
live forever
live from hand to mouth
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
load indicator
load line
load line mark
load of money
load resistance
load shedding
load the dice
load the mind
load the mind with
load water line
load water plane
load waterline
load with care
load with ornament
load with reproaches
load-indicating resistor
load-line disk
load-line mark
load-water-line
loaded cane
loaded dice
loaded for
loaded for bear
loaded moment
loaded with doom
loaded with shame
loaded with significance
loading coil
loading donkey
loading down
loading inductance
loaf of bread
loaf sugar
loaf-sugar
loam board
loan agent
loan collection
loan farm
loan form
loan god
loan office
loan officer
loan shark
loan translation
loan value
loan word
loan-office
loan-shark
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
lobster Newburgh
lobster Thermidor
lobster caterpillar
lobster crab
lobster flower
lobster moth
lobster newburg
lobster pot
lobster roll
lobster shift
lobster thermidor
lobster tour
lobster trap
lobster trick
lobster-horns
lobster-red
lobster-tail
lobster-tail helmet
lobster-tailed
lobsters-claw
lobular pneumonia
lobular pump
loc cit
local anaesthetic
local anesthetic
local authority
local call
local case
local color
local colour
local dialect
local economy
local examinations
local express
local government
local horizon
local law
local maximum
local minimum
local office
local option
local optioner
local optionism
local optionist
local oscillator
local oscillator signal
local road
local stamp
local tax
local time
local union
local wind
local yokel
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
lock plate
lock rail
lock saw
lock seam
lock seat
lock step
lock stitch
lock the door
lock turtle
lock up
lock washer
lock, stock, and barrel
lock-a-daisy
lock-grained
lock-hair fern
lock-jaw
lock-out
lock-up
locked in
locked jaw
locked up
locked-up page
locked-wire rope
locker box
locker paper
locker plant
locker room
locking face
locking gauntlet
locking in
locking on
locking pallet
locking piece
locking plate
locking ring
locking signals
locking up
locking wheel
lockup safety valve
loco citato
loco disease
loco parentis
loco supra citato
loco vetch
loco-descriptive
loco-foco
locomotive boiler
locomotive engine
locomotor ataxia
locoprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
log runner
log scale
log scaler
log ship
log slate
log tooth
log turner
log-
log-book
logos theology
logothete-
logwood black
logwood blue
logwood paper
loin end
loiter about
loiter around
loiter away the time
loiter behind
loiter out the time
loll around
loll shraub
loll-shraub
lollop around
lolly water
lombard street
lombard-street
lomi-lomi
london pride
lone hand
lone pair
lone wolf
lone woman
lonely end
lonely heart
lonesome end
long accent
long account
long ago
long arm
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
long cloth
long coat
long cross
long distance
long division
long dozen
long drink of water
long duration
long ess
long face
long fake
long for
long gallery
long game
long green
long haul
long home
long hop
long horn
long horse
long house
long hundred
long hundredweight
long in the tooth
long interest
long iron
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long range
long range aid to navigation
long rifle
long road
long robe
long rod
long rope
long run
long shanks
long shot
long side
long sight
long since
long splice
long standing
long step
long stock
long sufferance
long suit
long sweetening
long sword
long tether
long time
long tin
long to
long tom
long ton
long tongue
long topgallant mast
long trail
long trousers
long underwear
long vacation
long view
long vowel
long wave
long way
long while
long word
long-
long-acquainted
long-acre
long-agitated
long-ago
long-and-short work
long-arm
long-arm balance
long-armed
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruited
long-gown
long-gowned
long-grassed
long-hair
long-haired
long-haired griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heel
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged
long-limbed
long-line
long-lined
long-liner
long-lining
long-lived
long-livedness
long-living
long-locked
long-lost
long-lunged
long-memoried
long-nebbbed
long-neck clam
long-necked
long-nosed
long-off
long-on
long-parted
long-past
long-pasterned
long-pending
long-period variable
long-planned
long-playing
long-plumed
long-pod
long-poddled
long-possessed
long-projected
long-protracted
long-quartered
long-range
long-range attack aircraft
long-range bomber
long-range forecasting
long-range heavy bomber
long-range medium bomber
long-range patrol bomber
long-range plan
long-range planning
long-range radar
long-range rocket
long-reaching
long-resounding
long-ribbed
long-ridged
long-robed
long-roofed
long-rooted
long-saved
long-settled
long-shadowed
long-shadowed
long-shafted
long-shanked
long-shaped
long-shore
long-shut
long-sighted
long-sightedness
long-skulled
long-sleeved
long-snouted
long-sought
long-span
long-spine
long-spined
long-spun
long-sunned
long-staffed
long-stalked
long-standing
long-staple
long-staple isinglass
long-stapled
long-stemmed
long-stocked
long-streaming
long-stretched
long-stroke
long-styled
long-succeeding
long-sufferance
long-suffered
long-suffering
long-sufferingly
long-sundered
long-tail
long-tailed
long-tailed chat
long-tailed tit
long-term
long-term bond
long-term loan
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawing
long-withheld
long-wooed
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
looming in the distance
looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loop-hole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curled
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-flowing
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicled
loose-principled
loose-robed
loose-skinned
loose-spiked
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
losh hide
losh leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
loud noise
loud pedal
loud sound
loud-acclaiming
loud-applauding
loud-bellowing
loud-blustering
loud-calling
loud-clamoring
loud-cursing
loud-hailer
loud-laughing
loud-mouth
loud-mouthed
loud-mouths
loud-ringning
loud-roared
loud-roaring
loud-screaming
loud-singing
loud-sounding
loud-speaker
loud-speaking
loud-spoken
loud-squeaking
loud-thundering
loud-ticking
loud-voiced
louidspeaker van
loudy-da
lough diver
louis d'or
louis quatorze
louis quinze
louis seize
louis treize
lounge around
lounge bar
lounge car
lounge chair
lounge lizard
lounge suit
lounging jacket
lounging pajamas
lounging robe
loup cervier
loup-cervier
loup-garou
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-druhy
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-flighted
low-fortuned
low-frequency
low-frequency current
low-frequency speaker
low-frequency wave
low-gauge
low-geared
low-grade
low-heeled
low-hung
low-intensity
low-key
low-keyed
low-lead gas
low-level
low-level language
low-leveled
low-lipped
low-lived
low-living
low-low
low-lying
low-masted
low-melting
low-minded
low-mindedly
low-mindedness
low-murmuring
low-muttered
low-necked
low-paneled
low-pass filter
low-pitched
low-power
low-pressure
low-pressure area
low-pressure cylinder
low-pressure salesmanship
low-priced
low-principled
low-priority
low-profile
low-purposed
low-quality
low-quartered
low-rate
low-rented
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lowercased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
lowside window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jacket
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman's saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lunar tide
lunar waste
lunar year
lunar-diurnal
lunatic asylum
lunatic fringe
lunch break
lunch counter
lunch hour
lunch time
lunch wagon
luncheon bar
luncheon meat
luncheon voucher
lung book
lung cancer
lung fever
lung fish
lung fluke
lung plague
lung sickness
lunge at
lungworm disease
lunisolar precession
lunitidal interval
lupus erythematosus
lupus vulgaris
lurid imagination
lurking hole
lurking place
lush up
lust after
lust for
lust for knowledge
lust for learning
lust-born
lust-burned
lust-burning
lust-engendered
lust-stained
lust-tempering
luster pottery
luster wool
lustful leer
lusts of the flesh
lusus naturae
lute maker
lute player
lute stern
lute tablature
lute-
lute-backed
lute-fashion
lute-playing
lute-string
lute-voiced
luteinizing hormone
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre back
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyrico-dramatic
lyrico-epic
lys-
lysergic acid
lysergic acid diethylamide
lyso-
m b
m d
m-1
m-RNA
m-day
m-hum
m-ple point
mA
mAN
mC
mCi
mF
mGal
mH
mL
mM
mR
mRNA
mV
mW
ma chere
ma-jong
mabi bark
macaco worm
macadamia nut
macaranga gum
macaroni and cheese
macaroni cheese
macaroni salad
macaroni wheat
macaronic verse
macaw fat
macaw palm
mace butter
mace oil
mace-bearer
mach number
machina versatilis
machinations of the devil
machine binder
machine bolt
machine composition
machine computation
machine cutter
machine dresser
machine drill
machine feeder
machine gun
machine gunner
machine knife
machine knitter
machine language
machine lapper
machine nailer
machine pistol
machine politician
machine politics
machine readable
machine rifle
machine ruler
machine screw
machine shop
machine Stamper
machine steel
machine stitch
machine stitcher
machine stitching
machine tool
machine word
machine-breaking
machine-broken
machine-cut
machine-drilled
machine-driven
machine-finished
machine-forged
machine-gun
machine-gun fire
machine-gunned
machine-gunning
machine-hour
machine-knitted
machine-made
machine-mixed
machine-sewed
machine-stitch
machine-stitched
machine-switching office
machine-tooling
machine-woven
machine-wrought
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macrame cord
macrame knot
macro-axis
macrobiotic diet
macrocystic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
madder orange
madder pink
madder purple
madder red
madder rose
madder scarlet
madder violet
madder yellow
made dish
made eye
made flesh
made for
made mast
made of
made of iron
made of money
made out of
made out of whole cloth
made public
made rug
made sure
made to grovel
made to order
made up
made up of
made-beaver
made-over
made-to-measure
made-to-order
made-up
madia oil
madonna lily
madre-perl
madreporic glass
madreporic marble
madreporic body
madreporic plate
madreporic tubercle
mae west
maestro di cappella
mafura tallow
mag tape
magazine camera
magazine clothing
magazine publishing
magazine section
magazine writer
magellanic cloud
magen david
maggot in one's brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magic number
magic realism
magic realist
magic ring
magic show
magic spectacles
magic spell
magic square
magic wand
magic words
magico-religious
magico-sympathetic
maginot line
magistral line
magistrates’ court
magma basalt
magnetic stoping
magna charta
magna cum laude
magneto-
magnesia magma
magnesium carbonate
magnesium chloride
magnesium citrate
magnesium dioxide
magnesium flare
magnesium hydroxide
magnesium light
magnesium oxide
magnesium peroxide
magnesium sulfate
magnesium trisilicate
magnet forger
magnet keeper
magnet school
magnet-
magnetic amplifier
magnetic attraction
magnetic axis
magnetic battery
magnetic bearing
magnetic bottle
magnetic bubble
magnetic cartridge
magnetic character reader
magnetic chart
magnetic circuit
magnetic coefficient
magnetic compass
magnetic concentration
magnetic conductivity
magnetic constant
magnetic core
magnetic course
magnetic creeping
magnetic curves
magnetic declination
magnetic deviation
magnetic dip
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetic lens
magnetic memory
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic permeability
magnetic pickup
magnetic pole
magnetic potential
magnetic pulley
magnetic quantum number
magnetic recorder
magnetic recording
magnetic relay
magnetic reluctance
magnetic remanence
magnetic repulsion
magnetic resistance
magnetic retardation
magnetic retentiveness
magnetic rotation
magnetic scalar potential
magnetic storm
magnetic tape
magnetic tape recorder
magnetic tape unit
magnetic tube of force
magnetic variation
magnetic viscosity
magnetic wire
magnetic wire recorder
magnetico-
magnetite arc
magnetite arc lamp
magnetite-basalt
magnetite-olivinite
magnetite-spinellite
magnetizing current
magnetizing force
magneto assembler
magneto-
magno-to-electric
magno-to-electricity
magno-to-optical effect
magnetocaloric effect
magnetoelectric generator
magnetoelectric machine
magnetomotive force
magnetostriction microphone
magnificent rifle bird
magnifying glass
magnifying power
magnolia warbler
magnum bonum
magnum opus
magnus hitch
magpie diver
magpie finch
magpie goose
mah jong
mah-jongg
mahala mat
mahaleb cherry
mahali disease
maharao raja
mahogany birch
mahogany brown
mahogany family
mahogany-brown
mahua butter
maid marian
maid of all work
maid of honor
maid of honour
maid-in-waiting
maiden cane
maiden lady
maiden name
maiden over
maiden pink
maiden speech
maiden state
maiden voyage
maiden's blush
maiden's-tears
maiden's-wreath
maiden's-wreaths
maidenhair fern
maidenhair spleenwort
maidenhair tree
maidenhair-tree
maidenhair-vine
maids-hair
maids-in-waiting
mail boat
mail car
mail carrier
mail catcher
mail coach
mail drop
mail flag
mail order
mail orderly
mail packet
mail phaeton
mail pouch
mail steamer
mail train
mail truck
mail van
mail-cheeked
mail-coach
mail-order buying
mail-order goods
mail-order house
mail-order selling
mailed fist
mailed fist, the
mailed-cheeked
mailing list
mailing machine
mailing tube
main body
main brace
main chance
main clause
main course
main current
main deck
main diagonal
main dish
main drag
main feature
main features
main force
main gaff-topsail
main gauche
main idea
main interest
main lift
main line
main office
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
| major key | major league |
| major medical insurance | major mode |
| major operation | major operations |
| major order | major orders |
| major part | major party |
| major penalty | major piece |
| major planet | major poet |
| major premise | major premiss |
| major scale | major second |
| major seminary | major seventh chord |
| major suit | major surgery |
| major tenace | major term |
| major third | major triad |
| major domo | major-domos |
| major-domoship | major-general |
| major-generalcy | major-generalship |
| major-league | majority carrier |
| majority leader | majority rule |
| majuscule script | make a North River jibe |
| make a U-turn | make a bargain |
| make a bed | make a beeline |
| make a beginning | make a bequest |
| make a bet | make a bid |
| make a bid for |
make a blind bargain
make a blooper
make a blunder
make a board
make a boast of
make a bold push
make a boner
make a boo-boo
make a break for
make a break for it
make a breakthrough
make a brolly-hop
make a burst of speed
make a buy
make a call
make a cash payment
make a cat's-paw of
make a cautious move
make a chattel of
make a circuit
make a clamor
make a clean breast
make a clean breast of
make a clean sweep
make a close study of
make a comeback
make a commotion
make a comparison
make a compromise
make a critical revision
make a cross-reference
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage
make a pinch
make a pitch for
make a play for
make a plaything of
make a plea
make a point of
make a practice of
make a precipitate departure
make a prediction
make a present of
make a pretense
make a pretense of
make a pretext of
make a production of
make a prognosis
make a projection
make a promise
make a proof
make a prophecy
make a puppet of
make a purchase
make a quick exit
make a racket
make a radical change
make a raid
make a rebuttal
make a recension
make a reconnaissance
make a regulation
make a report
make a request
make a requisition
make a resolute stand
make a resolution
make a reverence
make a round trip
make a row
make a run
make a run for
make a rush at
make a sacrifice
make a sale
make a scene
make a scoop
make a selection
make a set at
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
make short work of
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make young
make your adieus
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
male alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malevolent influence
malignant cataract
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
malt house
malt liquor
malt sugar
malt vinegar
malt whiskey
malt whisky
malt-dust
malt-horse
malt-house
malt-worm
malta fever
malted milk
maltese cat
maltese cross
malum in se
mama's boy
mamma's boy
mammary gland
mammato-cumulus
mammee apple
mammee colorado
mammee sapota
mammoth tree
mammy coot
mammy wagon
mamori katana
man Friday
man about town
man after your own heart
man alive
man and boy
man and wife
man and woman
man ape
man engine
man fish
man friday
man from Mars
man fungus
man higher up
man hunt
man hunter
man in the moon
man in the street
man jack
man lock
man midwife
man mountain
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man tiger
man with hair on his chest
man without a country
man's best friend
man's estate
man-abhorring
man-about-town
man-at-arms
man-back
man-bearing
man-begot
man-bodied
man-born
man-brute
man-carrying
man-catching
man-centered
man-changed
man-child
man-compelling
man-created
man-day
man-days
man-degrading
man-destroying
man-devised
man-devouring
man-eater
man-eating
man-eating shark
man-enchanting
man-enslaved
man-fashion
man-fearing
man-for-man defense
man-forked
man-god
man-grown
man-handle
man-hater
man-hating
man-headed
man-high
man-hole
man-hour
man-hunter
man-keen
man-killer
man-killing
man-made
man-maiming
man-making
man-midwife
man-midwifery
man-milliner
man-mimicking
man-minded
man-minute
man-o'-war
man-o'-war bird
man-of-the-earths
man-of-war
man-of-war bird
man-of-war fish
man-of-war's man
man-orchis
man-pleasing
man-record chart
man-ridden
man-servant
man-shaped
man-size
man-sized
man-sized job
man-sized meal
man-stalking
man-subduing
man-supporting
man-tailored
man-taught
man-to-man
man-to-man defense
man-trap
man-woman
man-worshiping
man-worthiness
man-worthy
man-year
manage somehow
manage the price of
manage to
manage with
manage yourself
manageable price
managed currency
managed price
managed prices
management accounting
management consultant
management consulting
management engineering
management information system
management share
management theory
management trust
managing director
managing editor
mancona bark
mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
mandelic acid
mandibulo-
mandibulo-auricularis
mando-bass
mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniical excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoba rubber
maniere criiblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manna sugar
manna-croup
manned rocket
manned station
manner of articulation
manner of being composed
manner of speaking
manner of working
manners of cooking
mannish bob
mannish female
mannish wavy shingle
mannitol hexanitrate
manometer pressure
manor farm
manor house
manor manege
manor-house
manrope knot
mansard roof
mansion house
mansion-house
mansions in the sky
manstopping bullet
manta ray
mantel shelf
mantel-tree
mantis crab
mantis shrimp
mantle cavity
mantle of snow
mantle rock
mantle yourself with
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
manufactured gas
manufacturer's agent
manufacturing center
manufacturing lathe
manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-acred
many-angled
many-armed
many-banded
many-beaming
many-belled
many-bleating
many-blossomed
many-blossoming
many-branched
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-eared
many-eyed
many-faced
many-facedness
many-faceted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languageed
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-spotted
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
marble-imaged
marble-looking
marble-minded
marble-mindedness
marble-pale
marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon's mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchioness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare-rodé
marechal niel
mares of Diomedes
margaric acid
margate fish
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
marginal utility
margined securities
maria theresa dollar
mariage de convenance
marigold finch
marigold window
marigold yellow
marijuana cigarette
marijuana smoker
marine animal
marine animals
marine barometer
marine belt
marine biology
marine blue
marine chronometer
marine corps
marine engine
marine engineer
marine engineering
marine glue
marine green
marine insurance
marine ivy
marine league
marine painter
marine painting
marine railway
marine shell
marine soap
marine store
marine superintendent
marine travel
marine-finish
mariner's chart
mariner's compass
mariposa lily
marital affinity
marital faithfulness
marital fidelity
marital relations
maritime belt
maritime law
maritime reconnaissance plane
marjoram oil
mark boundaries
mark degree
mark down
mark lodge
mark of Cain
mark of office
mark of signature
mark off
mark out
mark out a course
mark out for
mark paid
mark the interface
mark the periphery
mark the time
mark time
mark tooth
mark up
mark with a red letter
mark-on
mark-up
marked down
marked resemblance
marked with the crow's foot
marker beacon
marker buoy
marker-down
marker-off
marker-out
markers-off
market analysis
market analyst
market bleach
market boat
market crab
market cross
market expansion
market garden
market gardener
market gardening
market hunter
market index
market keeper
market letter
market mammy
market order
market overt
market penny
market place
market pot
market price
market research
market town
market value
market, the
market-ripe
marketable securities
marketing research
marking caliper
marking cotton
marking gage
marking gauge
marking hammer
marking hatchet
marking ink
marking iron
marking knife
marking nut
marking stitch
marking the occasion
marl grass
marl-pit
marlin swordfish
marline-spike
marlinespike fish
marlinespike hitch
marlinespike seamanship
marling hitch
marmalade box
marmalade plum
marmalade tree
marmoreal repose
marmot squirrel
marnean epoch
maroon red
marquise rose
marquoise scale
marram grass
marriage act
marriage bed
marriage brokage
marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
marriage goddess
marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
marriage relationship
marriage sacrament
marriage settlement
marriage song
marriage vow
marriage-bed
married couple
married love
married man
married name
married print
married state
married status
married woman
marron glace
marrons glac
marrow bean
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treader
marsh trefoil
marsh turnip
marsh vetchling
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
marshalling yard
marsupial mole
marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
mason spider
mason wasp
mason's line
mason's lung
mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
mass energy
mass in
mass leave
mass man
mass market
mass media
mass meeting
mass movement
mass murder
mass noun
mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
mass spectrography
mass spectrometer
mass spectrometry
mass spectroscopy
mass spectroscope
mass spectrum
mass suicide
mass unit
mass-book
mass-energy
mass-energy equation
mass-fiber
mass-house
mass-luminosity law
mass-minded
mass-mindedness
mass-monger
mass-penny
mass-priest
mass-produce
mass-produced
mass-word
masses of
massor mass
massy-proof
mast ball
mast band
mast brown
mast cell
mast clamp
mast cloth
mast cover
mast funnel
mast hasp
mast hoop
mast house
mast lining
mast partner
mast ring
mast track
mast tree
mast-
mast-fed
mast-head
master alloy
master bedroom
master builder
master carpenter
master chief petty officer
master chord
master clock
master compass
master control desk
master controller
master craftsman
master cylinder
master film
master gauge
master gunner
master hand
master key
master leaf
master map
master mariner
master mason
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
matc-maker
match coins
match cord
match data
match findings
match frame
match game
match hook
match in the powder barrel
match joint
match lining
match pipe
match plane
match plate
match play
match point
match race
match rifling
match rope
match stamp
match tub
match up with
match wheel
match yourself against
match-board
match-lined
matchbox bean
matched order
matching machine
matching pair
matching plane
matching set
matchless discordant
mate gourd
mateo-
mater dolorosa
mater lectionis
mater of fact
materia medica
material assets
material basis
material body
mazer tree
mcm1io n9p8y9r lIlglhut
me-too
me-tooism
me-ward
mea culpa
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crane
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
meal worm
mealie meal
mealy bellwort
mealy bug
mealy-back
mealy-mouthed
mealy-mouthedness
mean anomaly
mean business
mean calorie
mean deviation
mean deviation from the mean
mean distance
mean free path
mean latitude
mean life
mean line
mean mind
mean much
mean noon
mean nothing
mean planet
mean sea level
mean semitone
mean solar day
mean solar time
mean square
mean square deviation
mean sun
mean time
mean to
mean to imply
mean to say
mean to suggest
mean value
mean value theorem
mean well
mean what you say
mean while
mean wretch
mean-acting
mean-conditioned
mean-dressed
mean-looking
mean-minded
mean-souled
mean-spirited
mean-spiritedly
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
measure off
measure out
measure signature
measure swords
measure swords with
measure time
measure up
measure up to
measure your length
measure zero
measurement cargo
measurement of variables
measurement ton
measuring cup
measuring device
measuring glass
measuring machine
measuring rod
measuring stick
measuring wheel
measuring worm
meat ax
meat block
meat breakfast
meat by-product
meat chopper
meat cleaner
meat eater
meat fly
meat grinder
meat loaf
meat market
meat offering
meat packer
meat pie
meat preserver
meat saw
meat slicer
meat stew
meat tea
meat thermometer
meat-eater
meat-eating
meat-fed
meat-hungry
meat-packing
meato-
mechan-
mecanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical man
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
mechanical wave
mechanically precise
mechanico-
mecanized warfare
medaddy-bush
medal bronze
medal chief
medal for merit
medal of freedom
medal of honor
medal play
medal winner
meddle with
meden agan
medi-
media campaign
medial condyle
medial strip
median strip
mediastino-pericardial
mediastino-pericarditis
mediastinum testis
mediated generalization
medical Greek
medical aid
medical and surgical instruments
medical attendant
medical attention
medical care
medical center
medical certificate
medical corps
medical diagnosis
medical diathermy
medical dressing
medical ethics
medical examination
medical examiner
medical history
medical instrument
medical jurisprudence
medical jury
medical man
medical practice
medical practitioner
medical prognosis
medical school
medical treatment
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet hand-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meet one's end
meet your end
mega-
 mega-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melanchoia attonita
melancholia hypochondriaca
melancholia religiosa
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilitite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membranous labyrinth
membranous labyrinth
memento mori
memo book
memorandum book
memorandum head
memoria in aeterna
memoria technica
memorial arch
memorial column
memorial day
memorial park
memorial record
memorial rose
memorial statue
memorial stone
memorial tablet
memory bank
memory book
memory circuit
memory gap
memory like a sieve
memory obstruction
memory root
memory span
memory trace
memory training
memory tubes
memory verse
memory-trace
men's chorus
men's clothing
men's lounge
men's magazine
men's room
men's wear
men's-wear shop
men-
men-at-arms
men-children
men-folk
men-of-the-earth
men-of-war
menace to health
menage a trois
menage man
mend sail
mend the furl
mend your fences
mend your manners
mend your ways
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mening-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental dissociation
mental distress
mental disturbance
mental effort
mental equilibrium
mental exercise
mental faculty
mental fatigue
mental genius
mental giant
mental grasp
mental handicap
mental healer
mental healing
mental health
mental home
mental hospital
mental hygiene
mental illness
mental image
mental impression
mental instability
mental institution
mental labor
mental linking
mental object
mental outlook
mental philosophy
mental picture
mental poise
mental presentation
mental process
mental prominence
mental ratio
mental representation
mental reservation
mental retardation
mental set
mental shock
mental sickness
mental strain
mental subnormality
mental symptom
mental telepathist
mental telepathy
mental test
mental topography
mental void
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercur-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
gabo
mescal maguey
mesh bag
mesh connection
mesh knot
meshing-spur gear
mesityl oxide
mesmeric sleep
mesne lord
meso-
mesoxalyl-urea
mesquite grass
mesquite gum
mess about
mess about with
mess around
mess around with
mess beef
mess call
mess gear
mess hall
mess in
mess jacket
mess kit
mess pork
mess sergeant
mess steward
mess up
mess with
mess-john
mess-up
message carrier
message stick
message-bearer
messed up
messed-up
messenger RNA
messenger bird
messenger cable
messenger of God
messenger wire
messiah religion
messing around
meta-
meta-toluidine
metabolic disease
metabolic diseases
metabolic heat
metabolic pathway
metabolic psychosis
metacentric stability
metacresol purple
metagalactic space
metal age
metal breaker
metal carbonyl
metal casting
metal cloth
metal coloring
metal cut
metal detector
metal foil
metal fouling
metal lath
metal lather
metal leaf
metal paste-up
metal sculpture
metal spraying
metal wood
metal-bearing
metal-bending
metal-boring
metal-bound
metal-broaching
metal-bushed
metal-clad
metal-clasped
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
metal-embossed
metal-forged
metal-framed
metal-free phthalocyanine
metal-grinding
metal-jacketed
metal-lined
metal-lithography
metal-melting
metal-perforating
metal-piercing
metal-shaping
metal-sheathed
metal-slitting
metal-slotting
metal-studded
metal-testing
metal-tipped
metal-trimming
metallic bond
metallic conduction
metallic luster
metallic soap
metallic thermometer
metallic wood-boring beetle
metallo-
metallo-organic
metallurgical chemistry
metallurgical engineer
metallurgical engineering
metallurgical microscope
metamict substance
metamorphic cycle
metamorphic rock
metanil yellow
metaphorical meaning
metaphorical sense
metaphosphoric acid
metaphysical idealism
metaphysical poetry
metaphysico-
metastable state
metastatic inflammation
metastatic tumor
mete out
mete out to
meteor crater
meteor dust
meteor dust impacts
meteor shower
meteor swarm
meteor trail
meteor train
meteoric particles
meteoric shower
meteoric success
meteorological instrument
meteorological reconnaissance
meteorological tower
meter angle
meter fixer
meter maid
meter rate
meter relay
meter-ampere
meter-candle
meter-candle-second
meter-kilogram
meter-kilogram-second
meter-millimeter
meter-reading
metered mail
metes and bounds
meth-
methacrylate resin
methacrylic acid
methamphetamine hydrochloride
methane series
methanol alcohol
methodical signs
methoxy DDT
methoxy group
methoxy radical
methyl acetate
methyl alcohol
methyl aldehyde
methyl benzene
methyl blue
methyl bromide
methyl cellulose
methyl chloride
methyl chlorocarbonate
methyl chloroformate
methyl cyanide
methyl ester
methyl ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methylacetic acid
methylated spirit
methylated spirits
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methylrosaniline chloride
methylthionine chloride
methyltri-nitro
meticulous attention
meting out
metopon hydrochloride
met-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
metronome mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzamine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relievos
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
micn1n o9p8y9r ii(glhutm
micr-
micro biology
micro-
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
microfilm plotter
microfilm reader
microfilm viewer
micrometer caliper
micrometer calliper
micrometer drum
micrometer gauge
micrometer head
micrometer screw
micrometrically precise
microscopic distinction
microwave diathermy
microwave diathermy machine
microwave height finder
microwave linear accelerator
microwave link
microwave mixer
microwave oven
microwave radar
microwave relay station
microwave spectroscope
microwave spectroscopy
microwave spectrum
mid air
mid gear
mid leg
mid mashie
mid off
mid position
mid spoon
mid wicket off
mid wicket on
mid-
mid-Victorian
mid-act
mid-age
mid-aged
mid-air
mid-arctic
mid-back
mid-block
mid-body
mid-breast
mid-career
mid-carpal
mid-central
mid-century
mid-channel
mid-chest
mid-continent
mid-course
mid-court
mid-crowd
mid-current
mid-diastolic
mid-dish
mid-distance
mid-earth
mid-eighteenth
mid-feather
mid-field
mid-flight
mid-forty
mid-front
mid-gray
mid-gut
mid-heaven
mid-hour
mid-ice
mid-incisor
mid-kidney
mid-lake
mid-length
mid-lent
mid-life
mid-line
mid-link
mid-lobe
mid-mixed
mid-mouth
mid-movement
mid-nineteenth
mid-ocean
mid-oestral
mid-off
mid-on
mid-orbital
mid-part
mid-period
mid-periphery
middle ages
middle body
middle buster
middle c
middle class
middle common room
middle course
middle deck
middle distance
middle ear
middle earth
middle eight
middle english
middle finger
middle french
middle game
middle greek
middle ground
middle high german
middle irish
middle lamella
middle latitude
middle life
middle low german
middle mast
middle name
middle of the road
middle oil
middle order
middle orders
middle passage
middle path
middle plane
middle point
middle position
middle sailing
middle school
middle scots
middle state
middle staysail
middle stone
middle stump
middle term
middle voice
middle watch
middle way
middle welsh
middle white
middle-aged
middle-agedly
middle-agedness
middle-burst
middle-class
middle-class type
middle-classdom
middle-classism
middle-classness
middle-colored
middle-cut file
middle-distance
middle-earth
middle-growthed
middle-horned
middle-of-the-road
middle-of-the-roader
middle-rate
middle-road
middle-shot wheel
middle-sized
middle-sizedness
middle-statured
middle-temperature error
middle-tone
middle-witted
middle-wooled
middling meat
middling well
middly blouse
midget golf
midget racer
midnight blue
midnight line
midnight sun
midrange speaker
midship oar
midshipman's hitch
midst of
midsummer daisy
midsummer day
midsummer madness
midsummer-men
midwall column
midwall shaft
midwife frog
midwife toad
midwing monoplane
might and main
might be
might of arms
might-be
might-have-been
mighty effort
mighty in battle
mighty like
mighty-brained
mighty-handed
mighty-minded
mighty-mouthed
mighty-spirited
mignonette family
mignonette green
mignonette lace
mignonette-vine
migrant laborer
migrant shrike
migrant worker
migration of ions
migration velocity
migratory bird
migratory laborer
migratory locust
migratory worker
mikado brown
mikado locomotive
mikado orange
mikado yellow
mike fright
mil-foot
mila a landi
milch cow
milch glass
milch-cow
mild alkali
mild as milk
mild as milk and water
mild as mother's milk
mild blushing goddess
mild mercurous chloride
mild mosaic
mild process
mild radical
mild silver protein
mild steel
mild-aired
mild-aspected
mild-blowing
mild-brewed
mild-cured
mild-eyed
mild-faced
mild-flavored
mild-looking
mild-mannered
mild-mooned
mild-savored
mild-scented
mild-seeming
mild-spirited
mild-spoken
mild-tempered
mild-tongued
mild-worded
mildew-proof
mildly radical
mile-ohm
mile-pound
mile-ton
mileage book
mileage ticket
miles glorious
miles per hour
military fever
military tuberculosis
military academy
military aircraft
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
military engineer
military engineering
military establishment
military flight
military government
military governor
military honours
military insignia
military intelligence
military judge
military law
military man
military march
military mast
military medal
military medicine
military music
military obligation
military officer
military operation
military operations
military orchid
military pace
military pilot
military police
military police corps
military policeman
military reserves
military rocket
military school
military science
military service
military spirit
military step
military subdivision
military tactics
military top
military training
military transport
military unit
military-intelligence man
military-minded
militate against
milk a he-goat into a sieve
milk a scene
milk and honey
milk and water
milk bar
milk bench
milk brother
milk can
milk cart
milk checker
milk chocolate
milk cow
milk fever
milk float
milk glass
milk leg
milk of almonds
milk of bismuth
milk of human kindness
milk of magnesia
milk pail
milk powder
milk products
milk pudding
milk punch
milk purslane
milk route
milk run
milk shake
milk sherry
milk sickness
milk snake
milk stout
milk sugar
milk tester
milk the ram
milk thistle
milk toast
milk tooth
milk train
milk vetch
milk willow-herb
milk-and-water
milk-and-wateriness
milk-and-waterish
milk-and-waterism
milk-and-watery
milk-bearing
milk-blended
milk-borne
milk-breeding
milk-condensing
milk-cooling
milk-curdling
milk-drying
milk-faced
milk-fed
milk-giving
milk-hued
milk-livered
milk-punch
milk-tested
mill-type motor
mill-wheel
mille marin
milled soap
miller's thumb
miller's-thumb
millet disease
millet grass
millet seed
millet-seed rash
milli-
milligram-hour
milline rate
milling cutter
milling machine
millionth comparator
millstone around your neck
millstone bridge
millwright chisel
milo disease
milo maize
milo root rot
milori blue
milori green
milpa system
mime artist
mimeograph copy
mimic thrush
miminy-piminy
mimosa bark
mimosa family
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curst
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
mined to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner's anemia
miner's asthma
miner's consumption
miner's dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
mineral sperm oil
mineral spirits
mineral spring
mineral tallow
mineral tar
mineral water
mineral waters
mineral wax
mineral wool
mineral world
mineral-bearing material
mineralogical chemistry
ming tree
mingle with
mingle-mangle
mingle-mangleness
mingle-mangler
mini-
mini-specs
miniature camera
miniature golf
miniature painting
miniature photography
miniature pinscher
miniature poodle
miniature schnauzer
minie ball
minimal art
minimal pair
minimax theorem
minimum access programming
minimum flying speed
minimum free form
minimum lending rate
minimum thermometer
minimum wage
minimum-security prison
minimum-wage law
mining claim
mining engineer
mining engineering
mining geology
minion of the law
minister of music
minister of state
minister of the Gospel
minister plenipotentiary
minister resident
minister to
minister without portfolio
minister-general
ministering angel
ministering spirits
ministers resident
ministers without portfolios
mink frog
mink-ranching
minny bass
mino bird
minole-mangle
minor axis
minor basilica
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
miracle man
miracle play
miracle player
miracle wheat
miracle-breeding
miracle-proof
miracle-worker
mire down
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheathed
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-strike
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-sworne
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en scene
mise-in-scene
mise-enscene
miserable lot
misery in the head
misfortune - difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
missel tree
missel-bird
missel-thrush
missile engineer
missile engineering
missile guidance
missile man
missile program
missile project
missile research
missile science
missile technology
missile testing
missile warfare
missing link
mission accomplished
mission furniture
mission grass
missionaries apostolic
missionary alphabet
missionary apostolic
missionary position
missionary rector
missionary salesman
missionary weed
misspeak yourself
mist blue
mist concentrate sprayer
mist gray
mist-blotted
mist-blurred
mist-clad
mist-covered
mist-enshrouded
mist-exhaling
mist-impelling
mist-laden
mist-shrouded
mist-wet
mist-wreathen
mistle thrush
mistletoe bird
mistletoe cactus
mistress-piece
mistress-ship
misty rain
misty-eyed
misty-moisty
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizzen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
mizzen-topgallant sail
mizzen-topgallant stay
mizzen-topgallant staysail
mizzen-topgallant yard
mizzen-topmast
mizzen-topmast stay
mizzen-topmast staysail
mizzen-topsail lift
mizzen-topsail yard
mks units
mmHg
mnemonic device
mob law
mob rule
mob tactics
mob, the
mob-cap
mob-minded
mobile antenna
mobile call
mobile camera
mobile command post
mobile home
mobile library
mobile militia
mobile radio
mobile tactics
mobile trailer unit
mobile transmitter
mobile unit
mobile vulgus
mobile warfare
moccasin flower
moccasin plant
moccasin telegraph
mocha stone
mochi wood
mock chicken
mock court
mock danger
mock epic
mock mold
mock moon
mock orange
mock pendulum
mock pennyroyal
mock sun
mock turtle
mock turtle soup
mock up
mock-beggar
mock-bird
mock-heroic
mock-heroic poetry
mock-heroical
mock-heroically
mock-up
mockernut hickory
mockery of justice
mockery-proof
mocking-bird
mocking-stock
mod cons
mod suit
modacrylic fiber
modal auxiliary
modal logic
mode Logic
mode beige
mode of expression
mode of operation
mode of procedure
mode of succession
mode of worship
model after
model child
model maker
model school
modeling clay
modeling tool
moderate breeze
moderate gale
moderate position
moderate price
moderator lamp
modern ballet
modern dance
modern dancer
modern generation
modern greats
modern hebrew
modern jazz
modern language
modern logic
modern man
modern-bred
modern-built
modern-looking
modern-made
modern-practiced
modern-sounding
moderne cut
modernist verse
modest price
modest violet
modi operandi
modi vivendi
modock wool
modular arithmetic
modular assembly
modular production
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moeso-goth
mogul base
mogul locomotive
mohair rug
mohawk weed
mohs' scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
molded base line
molded breadth
molded depth
molded displacement
molded draft
molded form
molded line
molded plastic
molded salad
molding board
molding book
molding compounds
molding edge
molding plane
moldy nose
mole catcher
mole crab
mole cricket
mole drain
mole drainage
mole drainer
mole fraction
mole gray
mole plow
mole rat
mole trap
mole-blind
mole-blindedly
mole-catching
mole-eyed
mole-head
mole-hill
mole-sighted
molecular beam
molecular biology
molecular distillation
molecular film
molecular formula
molecular heat
molecular mass
molecular physics
molecular ray
molecular sieve
molecular volume
molecular weight
moll hern
molluscum contagiosum
molluscum epitheliate
mollweide protection
molly maguire
molly washdish
molly-coddle
molotov cocktail
molybdenum steel
molybdenum trioxide
molybdic anhydride
molybdic oxide
moment of force
moment of inertia
moment of momentum
moment of stability
moment of truth
moment-area method
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deye
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
monkey apple
monkey around
monkey bag
monkey block
monkey bread
monkey bread tree
monkey bridge
monkey business
monkey dog
monkey fist
monkey flower
monkey forecastle
monkey foresail
monkey jacket
monkey link
monkey nut
monkey paw
monkey pinscher
monkey pole
monkey poop
monkey puzzle
monkey rail
monkey suit
monkey tail
monkey tricks
monkey with
monkey wrench
monkey's fist
monkey-ball
monkey-face
monkey-faced
monkey-faced owl
monkey-god
monkey-pot
monkey-rigged
monkey-tail valve
monkey-tailed
monkeying around
mono carpellary
mono carpic
mono carpous
mono cephalous
mono ceros
mono chord
mono clinal
mono clinic
mono clinous
mono cyclic
mono-
mono-ideic
mono-ideism
mono-ideistic
mono-iodo
mono-iodohydrin
mono-iodomethane
mono-ion
monoamine oxidase
monobasic sodium phosphate
monochloro-
monochloroacetic acid
monochromatic film
monochromatic illuminator
monoclinic system
monocytic leukemia
monoenergetic neutron
monophonic system
monopolistic competition
monopolize the conversation
monopolize the thoughts
monopolize your attention
monopoly value
monorange speaker
monosodium glutamate
monostable circuit
monoxy-
monroe doctrine
mons pubis
mons veneris
monsoon low
monster-bearing
monster-breeding
monster-eating
monster-guarded
monster-taming
monster-teeming
monstrous lie
mont-de-piete
mont-de-pit
montan wax
montani semper liberi
monte bank
monte-jus
montes veneris
month after month
month in month out
month of Sundays
month's mind
monthly epact
monthly investment plan
monthly meeting
monthly payments
monument plant
monumental mason
monumental record
monumental sculpture
mooch around
mooch off
mood music
mood phrase
mood swing
moon around
moon base
moon blindness
moon daisy
moon dog
moon goddess
moon goddesses
moon jelly
moon jellyfish
moon knife
moon letter
moon orbit
moon pillar
moon rat
moon ray
moon ship
moon station
moon-blanced
moon-blasted
moon-blasting
moon-blind
moon-born
moon-bright
moon-browed
moon-calf
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fern
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moose fly
moose-ear
moose-misse
moot case
moot court
moot hall
moot point
moot-hill
moot-house
moot-stow
mootchie wood
mop and mow
mop bucket
mop pail
mop up
mop up the floor with
mop-up
mope-eyed
mopped up
mopper-up
moppers-up
mopping up
mopping-up
m opstick rail
mora hair
morainal drift
moral badness
moral censor
moral certainty
moral climate
moral code
moral courage
moral delinquency
moral excellence
moral faculty
moral fiber
moral flaw
moral goodness
moral hazard
moral insanity
moral lesson
moral obligation
moral of the story
moral philosophy
moral pollutedness
moral pollution
moral precept
moral principles
moral rectitude
moral rightness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more dead than alive
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more sol
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortally ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
mother figure
mother fixation
mother goose
mother hubbard
mother language
mother liquor
mother lode
mother love
mother naked
mother of coal
mother of dews
mother of pearl
mother of the Muses
mother of thyme
mother of vinegar
mother ship
mother spleenwort
mother superior
mother superiors
mother surrogate
mother symbol
mother tongue
mother wit
mother yaw
mother's boy
mother's darling
mother's day
mother's milk
mother's son
mother-church
mother-in-law
mother-in-law plant
mother-naked
mother-of-pearl
mother-of-pearl cloud
mother-of-pearl glass
mother-of-thousands
mother-of-thyme
mother-of-thymes
mother-sick
mother-spot
mothers superior
mothers-in-law
motion backwards
motion block
motion downward
motion forwards
motion from
motion in general
motion photomicrograph
motion picture
motion pictures
motion short of
motion sickness
motion study
motion to
motion to and fro
motion towards
motion upwards
motion work
motion-picture
motion-picture actor
motion-picture camera
motion-picture fan
motion-picture film
motion-picture photography
motion-picture projector
motion-picture show
motion-picture theater
motionless torrents
motivating force
motivation research
motivational research
motive column
motive force
motive power
motive-monger
motive-mongering
motley color
motley fool
motley-minded
motmot blue
motmot green
moto-
motor abreaction
motor ambulance
motor aphasia
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain fever
mountain flax
mountain fleece
mountain foxtail
mountain fringe
mountain goat
mountain gorilla
mountain gun
mountain heath
mountain hollow
mountain holly fern
mountain laurel
mountain lilac
mountain lion
mountain mahogany
mountain maker
mountain making
mountain man
mountain maple
mountain nymph
mountain oyster
mountain parsley
mountain range
mountain redtop
mountain rice
mountain rose
mountain rosebay
mountain sage
mountain sandwort
mountain sheep
mountain sickness
mountain spleenwort
mountain starwort
mountain tent
mountain time
mountain timothy
mountain viscacha
mountain wave
mountain whitefish
mountain wind
mountain wine
mountain-built
mountain-dwelling
mountain-girdled
mountain-green
mountain-high
mountain-loving
mountain-sick
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-ea
mouse-eared chickweed
mouse-ear cress
mouse-ear hawkweed
mouse-eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
move to action
move to the side
move with the times
move you to
move your fanny
move your tail
moveable feast
movement of air
movie actor
movie camera
movie film
movie house
movie star
movie theater
movie-goer
movie-minded
movies, the
moving apart
moving average
moving cause
moving cluster
moving picture
moving road
moving spirit
moving staircase
moving stairway
moving target indicator
moving toward
moving van
moving-coil galvanometer
moving-coil meter
moving-coil microphone
moving-coil speaker
moving-conductor microphone
moving-iron meter
moving-picture show
moving-picture theater
mow down
mow-burnt
mowing grass
mowing machine
mowrah butter
mowrah fat
mowrah oil
mowrah-seed oil
moyen-age
mrs grundy
mu meson
mu-meson
muc-
much acclaimed
much ado about nothing
much as
much at one
much cry and little wool
much esteemed
much obliged
much of a muchness
much the same
much to be desired
much to be regretted
much-admired
much-advertised
much-branched
much-coiled
much-containing
much-devouring
much-discussed
much-enduring
much-engrossed
much-honored
much-hunger
much-lauded
much-loved
much-mooted
much-pondering
much-praised
much-revered
much-sought
much-suffering
much-valued
much-worshiped
mucic acid
mucilage canal
mucilage cell
mucilage duct
muck about
muck around
muck bar
muck in
muck rolls
muck soil
muck up
muck-rake
muck-up
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoidinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud hen
mud house
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffled drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-tsaï
muir ill
muir poot
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulct law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mul muslin
mull over
mullein dock
mullein foxtglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integr
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistep hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
mumbo jumbo
mumbo jumbos
mumbo-jumbo
mummy apple
mummy brown
mummy case
mummy chamber
mummy wheat
mummy-brown
mummy-cloth
mumping day
mumps meningitis
mundane astrology
mundane house
mung bean
municipal bond
municipal building
municipal corporation
municipal engineer
municipal securities
munition armor
munitions of war
munitions plant
mural coronet
mural crown
mural painting
murder en masse
murder the King’s English
murder the Queen's English
murder wholesale
murder will out
murderous frenzy
murderous insanity
murexide reaction
murexide test
muriatic acid
murillo bark
murine opossum
murmur diphthong
murphy bed
murphy button
murrhine glass
mus b
muscae volitantes
muscle beach
muscle cell
muscle column
muscle fiber
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscul-
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
mussed up
mussel bill
mussel crab
mussel-shell
must item
mustache cup
mustache monkey
mustang grape
mustard and cress
mustard beetle
mustard family
mustard gas
mustard greens
mustard oil
mustard plaster
mustard sauce
mustard seed
mustard-seed coal
muster courage
muster in
muster on
muster out
muster roll
muster up
muster your resources
muster-out
mustering out
mut dash
mutamur in illis
mutated form
mutation fox
mutation mink
mutation pressure
mutation stop
mutatis mutandis
mutato nomine
mute swan
mute witness
muted ecstasy
muth-labben
muto-
mutton bird
mutton cane
mutton chop
mutton chops
mutton grass
mutton snapper
mutton spanker
mutton tallow
mutton-chop
mutton-fish
mutton-legger
mutton-head
muttonchop whiskers
mutual admiration
mutual affinity
mutual agreement
mutual aid
mutual approach
mutual assistance
mutual attraction
mutual company
mutual concession
mutual fund
mutual impedance
mutual inductance
mutual induction
mutual insurance
mutual regard
mutual replacement
mutual repulsion
mutual savings bank
mutual support
mutual supportiveness
mutual transfer
mutual understanding
mutual-defense treaty
mutually approaching
muu-muu
muzzle ring
muzzle velocity
muzzle yourself
muzzle-loader
muzzle-loading
muzzy speech
my Angel-infancy
my Father's house
my boys
my burning youth
my craft and sullen art
my goodness
my green age
my humble self
my love
my nearest and dearest enemy
my stars
my word
my-
myall wood
myasthenia gravis
myc-
myceto-
myco-
mycobacterium paratuberculosis
mydas fly
myel-
myelin sheath
myelo-
myelogenous leukemia
myeloid leukemia
myna bird
mynad-minded
myo-
myocardial infarction
myocardial insufficiency
myoclonous epilepsy
myogen fibrin
myosin fibrin
myosotis blue
myovascular insufficiency
myrcia oil
myria-
myriad-leaf
myriad-leaves
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
mytho-
myxo-
n number
n'est-ce pas
n-
n-dimensional
n-ple
n-ply
n-tuple
n-tuple linear algebra
n-tuply
n-type
nCi
nF
nW
na zdorov'e
na-dene
nacreous cloud
nag at
nag-tailed
nagaed wood
nagami kumquat
nail bed
nail bit
nail bone
nail brush
nail caster
nail down
nail enamel
nail file
nail filer
nail filing
nail fold
nail hole
nail maker
nail making
nail molder
nail polish
nail puller
nail set
nail up
nail varnish
nail violin
nail water
nail your colors to the mast
nail-bearing
nail-biting
nail-clipping
nail-cutting
nail-head
nail-headed
nail-paring
nail-pierced
nail-shaped
nail-sick
nail-studded
nail-tailed
nailed down
nailer joist
nailhead rust
nailhead spar
nailhead spot
naive realism
nake-footed
naked as a jaybird
naked as a needle
naked as a worm
naked as my nail
naked as the day one was born
naked as the day you were born
naked eye
naked fact
naked floor
naked force
naked ladies
naked oat
naked singularity
naked smut
naked steel
naked to
naked-armed
naked-bladed
naked-eared
naked-eye
naked-eyed
naked-flowered
naked-fruited
naked-seeded
naked-stalked
naked-tailed
nalidixic acid
namas kar
namby-pambical
namby-pambics
namby-pambies
namby-pambiness
namby-pamby
namby-pambyish
namby-pambyism
namby-pambyness
name and address
name day
name for office
name names
name of the game
name over
name part
name plate
name tape
name to conjure with
name-caller
name-calling
name-child
name-day
name-drop
name-dropped
name-dropper
name-dropping
names of
namma hole
nand pearl
nankeen bird
nankeen lily
nanny goat
nanny plum
nanny-goat
nano-
nap hand
napa leather
naphth-
naphtha distiller
naphtha launch
naphthene-base oil
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narvotico-acrid
narvotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minded
narrow-mindedly
narrow-mindedness
narrow-mouthed
narrow-mouthed toad
narrow-necked
narrow-nosed
narrow-petaled
narrow-rimmed
narrow-seeded
narrow-shouldered
narrow-shouldred
narrow-skulled
narrow-souled
narrow-spirited
narrow-spiritedness
narrow-streeted
narrow-throated
narrow-toed
narrow-visioned
narrow-waisted
national income
national insurance
national language
national leader
national leadership
national literature
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature's nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
nautch dance
nautch girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
navy unit
navy yard
nay rather
nay-say
naya paisa
naye paise
ne exeat
ne plus ultra
ne'er a
ne'er a one
ne'er-do-well
ne'er-dos
ne-
neanderthal man
neap tide
near and far
near as the bark on a tree
near at hand
near beer
near by
near death
near duplicate
near east
near enough to
near future
near go
near hand
near likeness
near miss
near point
near relation
near rhyme
near side
near squeak
near the ground
near the limen of hearing
near the mark
near the surface
near the threshold of hearing
near the wind
near thing
near to
near upon
near your end
near your heart
near-acquainted
near-adjacent
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-reminding
near-sighting
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
neck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
neck-piece
neck-rein
neck-stretching
neck-tie
neck-verse
necklace orchid
necklace poplar
necklace tree
necktie party
necktie sociable
necr-
necro-
necrotic enteritis
necrotic inflammation
necrotic tissue
nectar bird
nectar of the gods
nectar-bearing
nectar-breathing
nectar-dropping
nectar-loving
nectar-secreting
nectar-seeking
nectar-spouting
nectar-streaming
nectar-tongued
need clarification
need doing
need explanation
need for
need must
need no explanation
need no prodding
need to
need translation
need-be
need-not
needle bath
needle beam
needle bearing
needle blight
needle bug
needle bush
needle cast
needle chervil
needle dam
needle diatom
needle file
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needle-nose pliers
needs must
needs-be
needy, the
neel-bhunder
neer-do-well
negation-proof
negative acceleration
negative answer
negative attitude
negative catalyst
negative electricity
negative feedback
negative flag
negative geotropism
negative glow
negative hallucination
negative income tax
negative ion
negative lens
negative misprision
negative polarity
negative pole
negative reinforcement
negative resistance
negative sign
negative tax
negative taxis
negative transfer
negative transference
negative tropism
negative valence
negative-pole
negative-raising
neglect the opportunity
neglected-looking
negotiable bond
negotiable instrument
negotiable instruments
negotiable note
negotiable paper
negotiable securities
negotiate a loan
negotiate a peace
negro corn
negro-head
negrohead beech
neiges d'antan
neighborhood house
neighborhood newspaper
neither fish
neither fish nor fowl
neither here nor there
neither hide nor hair
neither hot nor cold
neither more nor less
neither nobility nor clergy
neither one thing nor the other
nem con
nemat-
nematode worm
nemean lion
nemine contradicente
nemine dissentiente
nemo me impune lacescit
neo-
neo-Catholic
neo-Celtic
neo-Christianity
neo-Darwinian
neo-Darwinism
neo-Darwinist
neo-Gothic
neo-Greek
neo-Hippocratic medicine
neo-Plasticism
neo-Platonician
neo-Roman
neo-Sanskrit
neo-Sanskritic
neo-Scholastic
neo-Scholasticism
neo-Sogdian
neo-Sumerian
neo-Syriac
neo-Thomism
neo-classic
neo-classicist
neo-darwinian
neo-darwinism
neo-grammarian
neo-impressionism
neo-lamarckism
neo-orthodoxy
neo-scholastic
neo-scholasticism
neocolonialist threat
neoconcrete art
neofigural postsurrealism
neofigural postsurrealist
neolithic man
neon lamp
neon light
neon tetra
neon tube
neoothodox theology
neoprene rubber
neoza pine
nephelite-basanite
nephelite-diorite
nephelite-porphyry
nephelite-syenite
nephelite-tephrite
nephelo-
neph-
neph-
nephro-
nephro-ureterectomy
neptunium series
nero antico
neroli camphor
neroli oil
nerv-
nerve and sinew
nerve block
nerve canal
nerve cavity
nerve cell
nerve center
nerve centre
nerve cord
nerve eminence
nerve ending
nerve fiber
nerve fibre
nerve gas
nerve impulse
nerve net
nerve ring
nerve sheath
nerve stretching
nerve trunk
nerve yourself
nerve-ache
nerve-celled
nerve-cutting
nerve-deaf
nerve-deafness
nerve-destroying
nerve-irritating
nerve-jangling
nerve-racked
nerve-racking
nerve-rendering
nerve-ridden
nerve-shaken
nerve-shaking
nerve-shattering
nerve-stretching
nerve-tingling
nerve-trying
nerve-winged
nerve-wracking
nerve of steel
nerves on edge
nervo-
nervous as a cat
nervous breakdown
nervous disorder
nervous exhaustion
nervous nellie
nervous prostration
nervous stomach
nervous strain
nervous system
nervous tension
nervous wreck
nest box
nest egg
nest fungus
nest of drawers
nest-building
nest-egg
nestle-cock
net area
net assets
net blotch
net domestic product
net earnings
nettle hemp
nettle potato
nettle rash
nettle tree
nettle-cloth
nettle-leaved
nettle-rough
nettle-stung
nettle-tree
nettling cell
network affiliations
network pulser
network show
network stations
neufchatel cheese
neur-
neural arch
neural axis
neural canal
neural cavity
neural crest fold
neural gland
neural groove
neural lamina
neural plate
neural process
neural shield
neural spine
neural tube
neuraminic acid
neuro-
neurocirculatory asthenia
neurogenic shock
neurological disease
neuromotor apparatus
neuron doctrine
neurotic disorder
neurotic personality
neurotic-depressive reaction
neuter passive
neuter verb
neutral acriflavine
neutral atom
neutral axis
neutral color
neutral corner
neutral ground
neutral monist
neutral point
neutral position
neutral red
neutral spirits
neutral territory
neutral tint
neutral zone
neutral-tinted
neutralist nation
neutro-
neutron bomb
neutron factory
neutron number
neutron reaction
neutron star
never a one
never be forgotten
never cease
never die
never end
never fear
never feel better
never finish
never forget
never free from
never hear the last of
never idle
never in all your born days
never in my life
never in the world
never let go
never let on
never mind
never nod
never on earth
never on time
never otherwise
never pass
never say die
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-constant
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never-endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
never-strike
never-swerving
never-tamed
never-tiring
never-to-be-equaled
never-trodden
never-twinkling
never-vacant
never-varied
never-varying
never-waning
never-wearied
never-winking
never-withering
new arrival
new beginning
new birth
new blue
new boy
new broom
new brutalism
new catholic edition
new church
new covenant
new critic
new criticism
new deal
new departure
new englander
new english bible
new ethical movement
new generation
new greek
new halfpenny
new hampshire
new hebrew
new high
new humanism
new issue
new latin
new lease on life
new life
new light
new look
new man
new math
new mathematics
new maths
new meaning
new mintage
new moon
new moon bob
new morality
new pence
new penny
new penny Brit
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year's day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blown
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
new-furnish
new-grown
new-laid
new-light
new-looking
new-made
new-mint
new-minted
new-mintedness
new-model
new-modeler
new-mown
new-name
new-people
new-rich
new-rigged
new-risen
new-set
new-shaped
new-sprung
new-spun
new-written
new-wrought
new-year
newborn babe
newcastle disease
newel post
newel stair
newel-post
newest of the new
newfangled contraption
newfangled device
newfangled expression
newly come
newly-rich
newness to
news agency
news agent
news analyst
news bell
news case
news channel
news commentator
news conference
news dealer
news editor
news flash
news item
news kiosk
news media
news medium
news peg
news release
news report
news room
news service
news stall
news stirring
news story
news ticker
news vendor
news writer
news-greedy
news-letter
news-making
news-man
news-seeking
news-sheet
news-writer
newspaper of record
newspaper post
newspaper syndicate
newton-meter
next best
next best thing
next door
next door to
next friend
next in line
next life
next of kin
next to
next to nothing
next ways
next world
next-beside
next-door
next-door neighbor
nexus of cause and effect
nez perce
ngai camphor
ni-hard iron
ni-resist iron
nibbing plank
nibble at
nibble away
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery
nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nicker nut
nicker tree
nicker-tree
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
middle-noddle
niddy-noddy
nieve penitente
nievie-nievie-nick-nack
niff-naff
niff-naffy
niffy-naffy
niger oil
niger seed
nigger bug
nigger chaser
nigger chub
nigger daisy
nigger heaven
nigger pine
nigger toe
niggerhead cactus
nigh about
nigh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
night adder
night and day
night ape
night bird
night blindness
night blue
night bolt
night cart
night chair
night clothes
night cloud
night club
night court
night crawler
night crow
night dancer
night dew
night dial
night editor
night effect
night emerald
night fighter
night fire
night flower
night green
night heron
night jasmine
night jessamine
night kaka
night key
night lamp
night latch
night letter
night life
night light
night line
night lizard
night monkey
night office
night operations
night owl
night palsy
night parrot
night partridge
night pennant
night piece
night prayer
night rail
night raven
night rider
night robe
night rocket
night school
night sergeant
night shift
night singer
night snake
night soil
night song
night sparrow
night spell
night spot
night steed
night stick
night sweat
night table
night terror
night vision
night warbler
night watch
night watcher
night watches
night watching
night watchman
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-foundered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
night-robe
night-robbed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
night-warbling
night-watch
night-watching
night-watchman
night-work
nightclub habitue
nightshade family
nighty-night
nigrosine spirit-soluble
nigrosine water-soluble
nigrospora cob rot
nihil ad rem
nihil album
nihil debet
nihil dicit
nihil ex nihilo
nihil habet
nihil obstat
nihilistic delusion
niki-bori
nil admirari
nil desperandum
nil nisi bonum
nil sine numine
nile green
nilly-willy
nilpotent algebra
nim tree
nimble mind
nimble will
nimble wit
nimble-eyed
nimble-feathered
nimble-fingered
nimble-footed
nimble-headed
nimble-heeled
nimble-jointed
nimble-mouthed
nimble-moving
nimble-pinioned
nimble-shifting
nimble-spirited
nimble-stepping
nimble-tongued
nimble-toothed
nimble-winged
nimble-witted
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminyism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nine-year
ninepenny morris
ninepin block
nineteenth hole
nineteenth man
ninety-acre
ninety-day
ninety-day wonder
ninety-eight
nipping wind
nipple cactus
nippy wind
nirvana principle
 nisi prius
 nisi prius court
 nisi-prius
 nissen hut
 nissuee trout
 nit grass
 nit-grass
 nit-picking
 niter cake
 niter-blue
 nitr-
nitramino group
 nitramino radical
 nitric acid
 nitric bacteria
 nitric bacterium
 nitric ether
 nitric oxide
 nitride process
 nitriding steel
 nitrile base
 nitrile rubber
 nitro compound
 nitro group
 nitro powder
 nitro radical
 nitro-
nitro-cellulose
 nitro-cotton
 nitro-hydro-carbon
 nitrogen balance
 nitrogen chloride
 nitrogen cycle
 nitrogen dioxide
 nitrogen equilibrium
 nitrogen family
 nitrogen fixation
 nitrogen fixer
 nitrogen iodide
 nitrogen monoxide
 nitrogen mustard
 nitrogen narcosis
 nitrogen oxide
 nitrogen pentoxide
nitrogen peroxide
nitrogen tetroxide
nitrogen trioxide
nitrogen-fixing
nitrogen-free
nitrohydrochloric acid
nitroso-
nitroso group
nitroso radical
nitroso-
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitroxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no matter when
no matter which
no matter who
no mean
no mo
no modest violet
no more
no more and no less
no more beyond
no nearer
no nerves
no one
no onenobody
no other
no picnic
no place higher
no prize
no room for error
no room to swing a cat
no say
no scholar
no sir
no sirree
no skin off your back
no skin off your elbow
no skin off your nose
no slouch
no small print
no soap
no sooner said than done
no stranger to
no strings
no strings attached
no such a thing
no such thing
no sweat
no time
no time at all
no time to be lost
no title
no two ways about it
no use
no water
no way
no way out
no whit
no-account
no-ball
no-being
no-bottom sounding
no-claim bonus
no-claims bonus
no-count
no-deposit
no-deposit-no-return
no-eye pea
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
noblesse oblige
nobody home
nobody knows
nobody on earth
nobody one knows
nobody present
nobody special
nobody the wiser
nobody under the sun
nobody's fool
nobody's patsy
nobody's sucker
nocking point
noct-
nocti-
nocturnal arc
nocturnal epilepsy
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddy tern
node house
node longitude
node of Ranvier
nodi-
nodical month
node disease
noise about
noise abroad
noise and shouting
noise factor
noise field intensity
noise figure
noise interference
noise limiter
noise pollution
noise suppressor
noise-canceling microphone
noiseless foot of Time
noisette brown
nol pros
nol-pros
nol-prossed
nol-prossing
nolens volens
noli me tangere
noli-me-tangere
noll-kholl
nolle prosequi
nolo contendere
nom de guerre
nom de plume
nom de theatre
nombril point
nomen nudum
nominal charge
nominal damages
nominal head
nominal partner
nominal price
nominal rate
nominal value
nominal wages
nominating convention
nomination borough
nomination in the race
nominative absolute
nominative of address
nomo-
noms de guerre
non avenu
non compos
non compos mentis
non est
non est inventus
non licet
non liquet
non nobis
non obst
non obstante
non placet
non plus
non plus ultra
non possimus
non pros
non prosequitur
non rep
non repetatur
non seq
non sequitur
non troppo
non ultra
non-
non-African
non-Alexandrian
non-American
non-Anglican
non-Arab
non-Arabic
non-Aryan
non-Asian
non-Asiatic
non-Attic
non-Bantu
non-Baptist
non-Biblical
non-Biblically
non-Bolshevik
non-Bolshevism
non-Bolshevist
non-Bolshevistic
non-Brahmanic
non-Brahmanical
non-Brahminic
non-Brahminical
non-British
non-Buddhist
non-Buddhistic
non-Calvinist
non-Calvinistic
non-Calvinistical
non-Catholic
non-Caucasian
non-Caucasic
non-Caucasoid
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-English
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hamitic
non-Hebraic
non-Hebraically
non-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelitish
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muslims
non-Negritic
non-Negro
non-Negroes
non-Newtonian
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
non-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-juror
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
non-pros
non-prosequitur
non-prossed
non-prossing
non-recoiling
non-reduction
non-regent
non-regulation
non-residence
non-resident
non-residential
non-resistance
non-resistant
non-society
non-striker
non-subscriber
non-substantial
non-tenure
non-term
non-union
non-user
non-vascular
nona-
nonaaction calligraphist
nonaaction calligraphy
nonaggression pact
nonalcoholic beverage
nonaligned nation
nonanoic acid
nonapparent easement
nonapparent servitude
nonassessable mutual
nonassessable stock
noncallable bond
noncallable securities
noncanonical writings
nonce word
nonce, the
nonchord tone
nonco-operation
nonco-operationist
nonco-operator
noncommissioned officer
noncommutative algebra
noncondensing engine
noncontingent existence
noncontingent free will
noncritical mass
nondestructive testing
nondirectional antenna
nondirectional microphone
nondirective therapy
nondischarge of debts
nondrying oil
none else
none of your business
none other
none to spare
none too soon
none-so-pretty
nonfat dry milk
nonfat milk
nonfiction prose
nonfiction writer
nonfilterable virus
nonforfeiture benefit
nonforfeiture law
nonforfeiture value
nonfunctional addition
nongraded school
nonharmonic tone
nonionic detergent
nonlinear calibrations
nonlinear system
nonliving matter
nonmalignant tumor
nonmaterial culture
nonmedical therapist
nonmedical therapy
nonmember bank
nonnative citizen
nonnegotiable bond
nonnegotiable demand
nonnuclear weapons
nonny-nonny
nonordained persons
nonorganic matter
nonpartisan ballot
nonpartisan election
nonpartisan primary
nonprescription drug
nonprone to disease
nonproneness to disease
nonprovided school
nonre-eligibility
nonre-eligible
nonrestrictive clause
nonreversible reaction
nonsanctioned behavior
nonscheduled airline
nonself-governing
nonsense talk
nonsense verse
nonsex-linked
nonsinusoidal circuit
nonskid tire
nonspecific immunity
nonspecific therapy
nonspore-forming
nonstandard language
nonstandard speech
nonsusceptibility to disease
nonsusceptible to disease
nontransferable vote
nontuple time
nonunion shop
nonvalue bill
nonverbal communication
nonvintage wine
nonviolent change
nonviolent protest
nonviolent resistance
nonvolatile oil
nonvoting stock
nonyl alcohol
noodle-head
noogoora bur
nook shaft
nook-shotten
noon-light
noonday light
noonday night
noontide light
nor flesh
nor good red herring
nor nee
nor yet
nor'-west
nor'-wester
nor-
nor-noreast
norfolk howard
norfolk jacket
norm of perfection
normal atom
normal axis
normal barrage
normal curve
normal distribution
normal divisor
normal equivalent deviate
normal landing
normal load
normal loop
normal magnification
normal matrix
normal orthogonal
normal pentane
normal pitch
normal saline solution
normal school
normal series
normal spin
normal tax
normal unemployment
normalized text
norman architecture
norman-french
normative system
normed conjugate
normed space
north about
north briton
north by east
north by west
north celestial pole
north country
north germanic
north mark
north pole
north sea
north shore
north side
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
north-eastward
north-end
north-following
north-light
north-north-east
north-north-west
north-northeast
north-northeastward
north-northeastwardly
north-northeastwards
north-northwest
north-northwestward
north-northwestwardly
north-northwestwards
north-polar
north-preceding
north-seeking
north-sider
north-west
north-wester
north-westerly
north-western
north-westward
northeast by east
northeast by north
northeast storm
northern canoe
northern cross
northern crown
northern harvestfish
northern hemisphere
northern kingfish
northern lights
northern mammoth
northern pike
northern porgy
northern red currant
northern redtop
northern sennet
northern studfish
northwest by north
northwest by west
norwegian elkhound
nos-
nosce te ipsum
nose ape
nose around
nose around for
nose bag
nose bit
nose cone
nose count
nose dive
nose down
nose drops
nose ender
nose flute
nose glasses
nose guard
nose hitch
nose into
nose iron
nose key
nose leaf
nose out
nose over
nose peg
nose pipe
nose radiator
nose rag
nose ring
nose stiffener
nose to nose
nose to nose with
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belled
nose-bleed
nose-dive
nose-dived
nose-diving
nose-dove
nose-grown
nose-heavy
nose-high
nose-leafed
nose-led
nose-nippers
nose-piece
nose-piercing
nose-pipe
nose-pulled
nose-ring
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nose-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the foggieest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey's years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o'clock it is
not know what to make of
not know what you are about
not know what's what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
not listen
not live to eat
not live up to expectation
not long ago
not look back
not look backward
not look for
not look like
not lose a moment
not lose sight of
not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not one
not open your mouth
not opinion
not oppose
not outstanding
not overlook a bet
not pass
not pass muster
not pay
not penetrate
not perfect
not permit
not permitted
not play fair
not possible
not present
not pretend to say
not proceed with
not proved
not proven
not pull fair
not pull your punches
not pursue with
not put a foot wrong
not put it past
not put up with
not qualify
not quite
not quite right
not rare
not reach
not reach to
not real
not realize your expectations
not really
not receive
not refuse
not register
not relate to
not relax
not relax your concern
not remember
not resemble
not resist
not respect
not respectable
not rest
not right
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
not wait to be asked
not want any part of
not war
not wash
not waste
not weaken
not well-founded
not what it is cracked up to be
not what you used to be
not willing to hear of
not with it
not within the memory of man
not words but action
not work
not worth a continental
not worth a damn
not worth a rap
not worth a thought
not worth a whoop
not worth having
not worth mentioning
not worth saving
not worth speaking of
not worth the candle
not worth the pains
not worth the powder and shot
not worthwhile
not write off
not yield an inch
not your cup of tea
not your sort
not yourself
not-
not-being
not-delivery
not-ephemeral
not-good
not-living
not-out
not-self
not-soul
not-under-command lights
nota bene
notaries public
notarized statement
notary public
notch block
notch-lobed
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inégaux
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
noto-
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche
nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
now that
now you're talking
now-a-day
now-a-days
now-accumulated
now-being
now-big
now-borne
now-dead
now-existing
now-fallen
now-full
now-known
now-lost
now-neglected
now-waning
nowhere near
nowhere to be found
nowhere to turn
nowhere-dense
noxious stench
ns-a-vis
nt wt
nth degree
nth power
nu-value
nub yarn
nubbin disease
nubecula major
nubecula minor
nuci-
nucle-
nuclear artillery
nuclear atom
nuclear bomb
nuclear chemistry
nuclear cross section
nuclear electron
nuclear energy
nuclear engineer
nuclear envelope
nuclear explosive
nuclear family
nuclear fission
nuclear force
nuclear fuel
nuclear furnace
nuclear fusion
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
number line
number lottery
number nine iron
number off
number one
number one iron
number one wood
number opera
number plate
number present
number seven iron
number six iron
number system
number theory
number three wood
number two
number two iron
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses' station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
nut-crack
nut-cracker
nut-cracking
nut-gall
nut-gathering
nut-grass
nut-hook
nut-oil
nut-shaped
nut-shelling
nut-sweet
nut-tapper
nut-toasting
nut-tree
nut-weevil
nutgall oak
nutmeg apple
nutmeg bird
nutmeg butter
nutmeg family
nutmeg flower
nutmeg geranium
nutmeg grater
nutmeg hickory
nutmeg liver
nutmeg melon
nutmeg oil
nutmeg pigeon
nutrient ratio
nutritional disease
nutritive ratio
nutritive value
nuther about
nuts and bolts
nuts on
nuts over
nutty as a fruitcake
nutty-brown
nutty-flavored
nutty-looking
nux vomica
nycti-
nycto-
nylon carpeting
nylon string
nymph pink
o gauge
ok
o-
o-o
o-o-a-a
o-os
oak apple
oak bark
oak beauty
oak blight
oak brown
oak button
oak canker
oak chestnut
oak family
oak fern
oak fly
oak fungus
oak gall
oak green
oak leaf
oak leaf cluster
oak leather
oak moss
oak nut
oak of Dodona
oak pruner
oak tag
oak thistle
oak toad
oak tree
oak veneer
oak wart
oak wilt
oak-apple
oak-beamed
oak-boarded
oak-clad
oak-cleaving thunderbolts
oak-covered
oak-crested
oak-crowned
oak-leaf brown
oak-leaf cluster
oak-leaved
oak-paneled
oak-tanned
oak-timbered
oak-tree
oak-tree money
oak-wainscoted
oar feather
oar-footed
oast house
oast-house
oast-houses
oat bread
oat cleaner
oat field
oat flour
oat grass
oat grinder
oat huller
oat kiln
oat mill
oat sheller
oat thistle
oat thresher
oat-bearing
oat-cake
oat-crushing
oat-fed
oat-growing
oat-producing
oat-shaped
oaten reed
oath breaker
oath breaking
oath helper
oath of allegiance
oath of office
oath of secrecy
oath purgatory
oath suppletory
oath-bound
oath-breaking
oath-despising
oath-detesting
oath-making
oatlike bent grass
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obispo pine
obiter dicta
obiter dictum
object ball
object case
object glass
object in mind
object language
object lens
object lesson
object libido
object matter
object of art
object of compassion
object of note
object of pity
object of your affections
object program
object space
object speculum
object staff
object teaching
object to
object-glass
object-matter
objectionable person
objective behavior
objective case
objective complement
objective correlative
objective existence
objective genitive
objective idealism
objective point
objective predicate
objective prism
objective relativism
objective relativist
objective spirit
objective truth
objectively true
objectivn objectless preposition
objet d'art
objet d-art
objet trouv
objets d'art
oblate spheroid
oblation cloth
obligate yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliterative inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurum per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
observation platform
observation point
observation post
observation squadron
observation tower
observation train
observatory on the moon
observatory outlook
observe etiquette
observe protocol
observe the
observe the Golden Rule
observe the formalities
observe the proprieties
observe with a fine-toothed comb
obsess the mind
obsessed by
obsessional neurosis
obsessive compulsion
obsessive-compulsive neurosis
obsessive-compulsive reaction
obsidional coin
obsolete securities
obstacle course
obstacle race
obstacle racer
obstinate person
obstinate pride
obstruction light
obstruction to vision
obtain a divorce
obtain a return
obtain by fair means or foul
obtain under false pretenses
obtaining by deception
obtrude on
obtrude upon
obturateur artery
obturateur canal
obturateur fascia
obturateur membrane
obturateur nerve
obturateur vein
obtuse angle
obtuse bisectrix
obtuse triangle
obtuse-angled
obtuse-angled triangle
obtuse-angular
obtus-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occluding light
occluding screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness
ocean perch
ocean pout
ocean racer
ocean sea
ocean spray
ocean sunfish
ocean trade
ocean tramp
ocean travel
ocean trip
ocean zone
ocean-born
ocean-borne
ocean-carrying
ocean-compassed
ocean-flooded
ocean-girdled
ocean-going
ocean-going tug
ocean-guarded
ocean-rocked
ocean-severed
ocean-skirted
ocean-smelling
ocean-spanning
ocean-sundered
ocean-wide
oceanic island
oceanographic research ship
ocellated turkey
ocellified turkey
ocher brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
oct-
odd-lot
odd-lot dealer
odd-mannered
odd-me-dod
odd-numbered
odd-pinnate
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
œil-de-boeuf
œils-de-boeuf
oenanthic ester
oenanthic ether
œno-
œosphago-
oestrous cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart  
of help  
of ill omen  
of importance  
of interest  
of itself  
of kin  
of language  
of late  
of like mind  
of little brain  
of little consequence  
of little importance  
of long duration  
of long standing  
of loose morals  
of many words  
of mark  
of marriageable age  
of moment  
of necessity  
of no account  
of no avail  
of no concern  
of no consequence  
of no earthly use  
of no effect  
of no force  
of no great importance  
of no importance  
of no matter  
of no purpose  
of no significance  
of no use  
of note  
of old  
of one accord  
of one mind  
of one piece  
of opposite polarity  
of other times  
of powerful physique  
of preference  
of promise  
of quality  
of rank  
of record  
of ripe age
of sentiment
of service
of set purpose
of significance
of small importance
of small number
of sorts
of soul
of sound mind
of that ilk
of that kind
of that sort
of the best
of the best sort
of the blood
of the clock
of the cloth
of the dead
of the deepest
of the deepest dye
of the earth
of the essence
of the faith
of the first magnitude
of the first rank
of the first water
of the folk
of the highest type
of the old school
of the same hue
of the same kidney
of the same mind
of the same stripe
of the true faith
of the war party
of two minds
of unsound mind
of use
of value
of vital importance
of weight
of yesterday
of yore
of your own
of your own accord
of your own choice
of your own free will
of your own volition
of-
of-door
of-fact
of-the-moment
off Broadway
off and on
off base
off chance
off colour
off cut
off day
off duty
off guard
off in the clouds
off in the upper story
off in your reckoning
off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off white
off with
off with you
off work
off year
off you go
off your beat
off your chump
off your feed
off your guard
off your hands
off your head
off your nut
off your rocker
off your trolley
off-Broadway
off-balance
off-base
off-bear
off-bearer
off-bitten
off-board
off-break
off-cast
off-center
off-centered
off-centre
off-chance
off-color
off-colored
off-corn
off-cutting
off-drive
off-fall
off-falling
off-flavor
off-flow
off.glide
off-go
off-guard
off-hand
off-handed
off-hit
off-hitting
off-hour
off-key
off-licence
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offertory sentence
offertory veil
offhand position
offhand shot
official residence
office bearer
office block
office boy
office building
offshore rights
offspring of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of cade
oil of catechumens
oil of mirbane
oil of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil-bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secreting
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilspot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oiticica oil
oka cheese
okee-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks’ home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashioned
old-fashionedly
old-fashionedness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogyish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
old-maidenish
old-maidish
old-maidishness
old-maidism
old-man cactus
old-man fern
old-man's-beard
old-new
old-rose
old-school
old-sighted
old-sightedness
old-squaw
old-standing
old-style
old-time
old-time country music
old-time religion
old-timer
old-timey
old-timey music
old-timeliness
old-timy
old-wifely
old-wifish
old-womanish
old-womanishness
old-womanism
old-womanly
old-world
old-worldish
old-worldism
old-worldliness
old-worldly
old-young
olde-worlde
olden times
oldest profession
ole-
oleander fern
oleander scale
oleaster family
olefiant gas
olefin series
oleic acid
oleo gear
oleo leg
oleo oil
oleo strut
oleo-
oleoyl group
oleoyl radical
oleyl alcohol
olfactory area
olfactory bulb
olfactory cell
olfactory nerve
olfactory nerves
olfactory organ
olfactory pit
olfactory sense
olfactory tract
olig-
oligo-
olinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
on Easy Street
on Queer Street
on a beam
on a beat
on a bed of roses
on a bowline
on a broad reach
on a cloud
on a declining scale
on a first-name basis
on a footing
on a good footing
on a large scale
on a leash
on a lee shore
on a level
on a line
on a minuscule scale
on a par
on a reach
on a rock
on a slant
on a small scale
on a stretch
on a string
on a sudden
on a sudden impulse
on a treadmill
on account
on account of
on account of this
on account of what
on account of which
on all accounts
on all counts
on all fours
on all fours with
on all hands
on all sides
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank's mare
on shank's pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
on the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball
on the bare possibility
on the barricades
on the bash
on the beach
on the beam
on the beam's ends
on the beam-ends
on the beat
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shiitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
on-stage
on-stream
on-the-job training
once again
once and again
once and for all
once and for always
once and no more
once for all
once in a blue moon
once in a coon's age
once in a thousand years
once in a while
once more
once or twice
once over lightly
once pinnate
once removed
once upon a time
once-accented
once-born
once-over
once-run
ondo-
ondes Martenot
one C
one accord
one after the other
one all over
one and all
one and indivisible
one and only
one and the same
one another
one at a time
one bone and one flesh
one by one
one can assume
one cheer more
one day
one dem'd horrid grind
one fifth
one fine day
one fine morning
one flesh
one for all
one for the book
one for the road
one fourth
one half
one hoss shay
one hundred thousand
one in a million
one in a thousand
one in a way
one in ten thousand
one leg
one man
one mind
one o'clock
one of the people
one of these days
one of us
one old cat
one or two
one small difficulty
one thing leads to another
one thing nor the other
one thing to another
one time
one touch of nature
one up
one up on
one voice
one vote
one's adieus
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's darnest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
one-foot
one-footed
one-fourth
one-grained
one-hand
one-handed
one-handedness
one-hearted
one-hoofed
one-horned
one-horse
one-horse town
one-humped
one-hundred-fifty
one-hundred-percenter
one-hundred-percentism
one-ideaed
one-inch
one-jointed
one-layered
one-leaf
one-leaved
one-legged
one-leggedness
one-letter
one-line
one-line octave
one-lung
one-lunged
one-lunger
one-man
one-man rule
one-many
one-minute
one-nerved
one-night
one-night stand
one-nighter
one-o'clock
one-off
one-one
one-party rule
one-party system
one-petaled
one-piece
one-piece suit
one-piecer
one-pipe
one-pipe furnace
one-point
one-point perspective
one-pope
one-pound
one-pounder
one-price
one-quarter
one-rail
one-reeler
one-ribbed
one-roomed
one-seater
one-seeded
one-sepaled
one-septate
one-shot
one-sided
one-sidedly
one-sidedness
one-spot
one-star general
one-step
one-step rocket
one-storied
one-story
one-striper
one-term
one-third
one-time
one-to-one
one-toed
one-track
one-track mind
one-two
one-two punch
one-up
one-upmanship
one-valued
one-way
one-way communication
one-way ticket
one-way trip
one-windowed
one-winged
one-word
one-year
oneiro-
one's self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
oniro-
onium compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
onological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
ooblastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora’s box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open-eared
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-heartedly
open-heartedness
open-hearth
open-hearth furnace
open-hearth process
open-hearthed
open-housed
open-housedness
open-housing
open-joint
open-jointed
open-kettle
open-kneed
open-letter
open-letter proof
open-lined
open-market
open-minded
open-mindedly
open-mindedness
open-mouthed
open-mouthedly
open-mouthedness
open-newel
open-newel stair
open-pan
open-patterned
open-phase
open-phase relay
open-pit
open-pitted
open-plan
open-pollinated
open-reel
open-roofed
open-rounded
open-sand
open-sequence system
open-shelf
open-shelter-deck vessel
open-shelved
open-shop
open-sided
open-sidedly
open-sidedness
open-sleeved
open-spaced
open-spacedly
open-spacedness
open-spoken
open-spokenly
open-spokenness
open-tank
open-tide
open-timber
open-timbered
open-timbre
open-top
open-topped
open-view
open-visaged
open-weave
open-web
open-webbed
open-webbedness
open-well
open-windowed
open-windowedness
open-work
open-worked
opencast mining
opening bit
opening die
opening gun
opening move
opening price
opening time
opening up
openness to sensation
openness to sight
openside planer
opera ballet
opera bouffe
opera box
opera buffa
opera buffas
opera cape
opera cloak
opera comique
opera dancer
opera festival
opera flannel
opera glass
opera glasses
opera hat
opera hood
opera house
opera omnia
opera pink
opera score
opera season
opera seria
opera serias
opera singer
opera-going
opera-mad
operant conditioning
operas buffa
operas seria
operate at a loss
operate on
operatic overture
operatic singing
operating budget
operating company
operating cost
operating costs
operating expense
operating expenses
operating room
operating speed
operating table
operating theatre
operational gain
operational purpose
operational research
operations research
operations room
operative dentist
operative dentistry
operative surgeon
operative surgery
operator gene
operculi-
opere buffe
opere citato
opere serie
ophio-
ophthalm-
ophthalmia neonatorum
ophthalmic
ophthalmo-
ophthamo-reaction
opiate addiction
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
oppositi-
opposition party
opposition to change
opposition voice
oppression of spirit
opra bouffe
opra comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical instruments
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
optimum capacity
optimum programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orange-throated
orange-tip
orange-tipped
orange-tree
orange-winged
orange-yellow
orate frater
oratio obliqua
oratio recta
oratorio society
orb of day
orb of night
orb weaver
orbiculato-
orbit sweeper
orbit the earth
orbit the moon
orbital angular momentum
orbital electron
orbital index
orbital quantum number
orbital velocity
orbiting geophysical observatory
orbiting observatory
orbiting solar observatory
orbito-
orchard bush
orchard fruit
orchard grass
orchard heater
orchard heating
orchard house
orchard oriole
orchard valve
orchella weed
orchestra bells
orchestra circle
orchestra leader
orchestra pit
orchestral bells
orchestral horn
orchestral musician
orchestral score
orchid family
orchid fly
orchid peat
orchid pink
orchid rose
orchid tree
orchido-
orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
order blank
order in council
order of battle
order of being
order of business
order of magnitude
order of nature
order of succession
order of the day
order of worship
order paper
order port
order up
order-book
ordered around
ordered field
ordered pair
orderly bin
orderly book
orderly officer
orderly room
orderly sergeant
ordinal number
ordinary Joe
ordinary algebra
ordinary differential equation
ordinary jubilee
ordinary life insurance
ordinary man
ordinary people
ordinary point
ordinary ray
ordinary run
ordinary run of things
ordinary seaman
ordinary share
ordinary shares
ordinary stock
ordinary wave
ordinary, the
ordinary-language philosophy
ordinato-punctate
organ fish
organ gallery
organ grinder
organ gun
organ harmonium
organ loft
organ maker
organ manual
organ of Corti
organ of taste
organ of thought
organ of vision
organ pipe
organ player
organ point
organ screen
organ stop
organ swell
organ transplant
organ transplantation
organ whistle
organ-blowing
organ-grinder
organ-piano
organ-pipe
organ-pipe cactus
organ-pipe coral
organic being
organic chemical
organic chemist
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
organic nature
organic phosphate insecticide
organic psychosis
organic remains
organic structure
organic unity
organization insignia
organization man
organized crime
orographic cloud
orographic precipitation
orphan chamber
orphans' court
orphreyed miter
orpiment orange
orpiment red
orpiment yellow
orpine family
orra man
orris oil
orth-
ortho-
ortho-cousin
ortho-orsellinic
ortho-toluidine
ortho-xylene
orthoboric acid
orthochromatic film
orthoclase-basalt
orthoclase-gabbro
orthodox Christian
orthodox judaism
orthoformic acid
orthogonal matrix
orthogonal projection
orthogonal trajectory
orthographic projection
orthomorphic projection
orthopedic surgery
orthophosphoric acid
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
oscillating engine
oscillating universe theory
oscillation circuit
oscillation constant
oscillation engine
oscillation number
oscillation transformer
oscillation-cylinder engine
oscillator relay actuator
oscillator relay control
oscillatory behavior
oscillatory discharge
oscillograph data
oscillograph recorder
oscilloscope tube
oscine bird
osco-umbrian
osculating circle
osculating plane
osier cornel
osier willow
osier-bordered
osier-fringed
osier-like
osier-woven
osmi-iridium
osmo-
osmium lamp
osmium oxide
osmium tetroxide
osmo-
osmotic pressure
osmotic shock
osmund brake
osmund furnace
osmund iron
oso-berry
osse-
osseous rheumatism
osso bucco
osso buco
oste-
osteitis deformans
ostensible motive
ostensible partner
ostentatious complexity
ostentatious devotion
ostentatious profundity
osteoo-
osteopathic hospital
ostraco-
ostre-
ostrich fern
ostrich-egg
ostrich-feather
ostrich-feather grass
ostrich-plume
oswego tea
ot-
otaheite apple
other continuums
other face
other fish to fry
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
otter brown
otter canoe
otter gear
otter hound
otter raft
otter sheep
otter shell
otter shrew
otter trawl
ouabe oil
oufs a la coque
oufs brouilles
oufs poches
oufs sur le plat
ought to
ouija board
ounce apothecaries'
ounce avoiduipois
ounce metal
ounce troy
our account of ourselves
our father
our times
ourang-outang
ourano-
ouster le main
ouster-le-main
out ahead
out and away
out at elbows
out at heels
out at the elbows
out at the heels
out board
out cold
out for
out for bear
out from under
out front
out guide
out in front
out in left field
out in the cold
out in the open
out in your reckoning
out loud
out of
out of a clear blue sky
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-of-course
out-of-date
out-of-dateness
out-of-door
out-of-doors
out-of-fashion
out-of-focus
out-of-hand
out-of-humor
out-of-joint
out-of-line
out-of-office
out-of-order
out-of-place
out-of-plumb
out-of-pocket
out-of-print
out-of-reach
out-of-school
out-of-season
out-of-stater
out-of-stock
out-of-the-common
out-of-the-way
out-of-the-world
out-of-town
out-of-towner
out-of-townish
out-of-tune
out-of-tunish
out-of-turn
out-of-vogue
out-office
out-parish
out-patient
out-pension
out-pointed
out-quarter
out-relief
out-room
out-sentry
out-settlement
out-soul
out-station
out-street
out-take
out-throw
out-thrust
out-top
out-travel
out-voter
out-wall
out-worker
outa sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outing flannel
outlaw strike
outlet box
outlet plate
outline stitch
outlook over
outlying picket
outpatient clinic
outpost of advancing day
outstrip the wind
outward appearance
outward show
outward-bound
outward-bounder
outward-facing
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindraceous
ovate-cylindrical
ovate-deltoid
ovate-ellipsoidal
ovate-elliptic
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrated
ovate-subulate
ovate-triangular
ovato-
oven builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
overearnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
overlook distinctions
overlook no possibility
overlook nothing
overlooking no possibility
overly permissive
overmonopo-lizing
overnight bag
overnight sensation
overnight telegram
overopenness to conviction
overopenness to persuasion
overplay your hand
overreach yourself
overreact to
overseas bar
overseas cap
overseas operations
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
oversstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
owala oil
owala tree
owe a grudge
owe it to
owe it to yourself
owe you no thanks
owing to
owl butterfly
owl car
owl fly
owl midge
owl monkey
owl moth
owl parrot
owl swallow
owl's light
owl's-crown
owl-eyed
owl-faced
owl-glass
owl-haunted
owl-headed
owl-light
owl-sighted
owl-wide
owl-winged
owlet moth
owlet nightjar
own accord
own account
own authority
own choice
own correspondent
own discretion
own free will
own hands
own hook
own initiative
own power
own responsibility
own say-so
own sweet way
own up
own volition
own way
own yourself in the wrong
own-form
own-root
own-rooted
owning up
ox antelope
ox ball
ox balm
ox bile
ox bot
ox daisy
ox dance
ox feather
ox fence
ox heart
ox louse
ox rail
ox ray
ox sole
ox team
ox warble
ox-
ox-bird
ox-bow
ox-eye
ox-eyed
ox-eyed arch
ox-foot
ox-harrow
ox-head
ox-headerd
ox-horn
ox-stall
ox-tail
ox-tongue
ox-tongue partisan
oxa-
oxal-
oxalic acid
oxalo-
oxbow chest
oxbow front
oxbow lake
oxeye bean
oxeye camomile
oxeye daisy
oxeye molding
oxford cloth
oxford down
oxford movement
oxi-
oxidation number
oxidation potential
oxidation state
oxidation-reduction
oxide blue
oxide brown
oxide purple
oxide red
oxide yellow
oxidizing agent
oxidizing flame
oxime group
oxo process
oxo reaction
oxo-
oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-
oxo-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxycalcium light
oxychlor-
oxodiacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyster agaric
oyster bank
oyster bar
oyster bay
oyster bed
oyster canoe
oyster catcher
oyster crab
oyster cracker
oyster culture
oyster dredge
oyster drill
oyster farmer
oyster fork
oyster fungus
oyster grass
oyster gray
oyster knife
oyster mine
oyster mushroom
oyster park
oyster pink
oyster plant
oyster plover
oyster rake
oyster rock
oyster scale
oyster schooner
oyster scow
oyster shell
oyster sloop
oyster stew
oyster tongs
oyster tree
oyster white
oyster-catcher
oyster-culturist
oyster-shaped
oyster-shell bark louse
oyster-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz t
ozaena-
ozon-
ozone layer
ozone paper
ozonic ether
p & p
p's and q's
p-n junction
p-type
p/e ratio
paddle staff
paddle steamer
paddle tennis
paddle tumbler
paddle wheel
paddle wing
paddle your own canoe
paddle-shaped
paddle-wheel
paddock pipe
paddy blast
paddy field
paddy lucern
paddy wagon
paddy-bird
paddywhack almanac
padge owl
padlock injunction
padlock law
padouk wood
padparadschah sapphire
paean of cheers
paed-
paedo-
pagan deity
pagan divinity
pagan priest
pagano-Christian
pagano-Christianism
page boy
page chair
page cord
page gauge
page numbering
page proof
page rest
page through
page-boy
pagoda sleeve
pagoda stone
pagoda tree
pagoda-tree
pai-hua
pai-loo
pai-loos
paid holiday
paid in full
paid vacation
paid-
paid-in
paille finne
pain in the ass
pain in the neck
pain killer
pain pill
pain spot
pain-afflicted
pain-assuaging
pain-bearing
pain-bought
pain-chastened
pain-dispelling
pain-distorted
pain-drawn
pain-fearing
pain-free
pain-giving
pain-inflicting
pain-killer
pain-killing
pain-producing
pain-racked
pain-stricken
pain-worn
pain-wrought
pain-wrung
pains and punishments
painstakingly match
paint a picture
paint binder
paint bridge
paint brusher
paint cleaner
paint drier
paint finish
paint frame
paint grinder
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
palace car
palace court
palace guard
palace revolution
palaeo-
palais de danse
palais glide
palas kino
palate bone
palatial residence
palatine tonsil
palato-
pale as a corpse
pale as a forpined ghost
pale as a ghost
pale as death
pale as his shirt
pale bark
pale blue chip
pale brandy
pale broomrape
pale catechu
pale color
pale corydalis
pale elder
pale horse
pale laurel
pale rider
pale-
pale-blooded
pale-blue
pale-bright
pale-cheeked
pale-colored
pale-complexioned
pale-dried
pale-eared
pale-eyed
pale-face
pale-faced
pale-gray
pale-green
pale-hued
pale-leaved
pale-livered
pale-looking
pale-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-striped
pale-tinted
pale-visaged
pale-yellow
paleo-
paleolithic man
paleontological geology
pales weevil
palette knife
paling board
palisade cell
palisade crown
palisade parenchyma
palisade worm
palkee gharri
pall-like
pall-mall
palladium red
palladium sponge
pallet board
pallet box
pallet eye
pallet knife
pallet leather
pallet stone
pallet tail
pallial sinus
palliative operation
palliative treatment
pallid-faced
pallid-fuliginous
pallid-gray
pallid-looking
pallid-ochraceous
pallid-tomentose
pallio-
pallisado crown
pally walsy
palm beetle
palm branch
palm butter
palm cabbage
palm capital
palm cat
palm chat
palm civet
palm cockatoo
palm crab
palm dove
palm family
palm fern
palm for
palm grass
palm grease
palm greaser
palm greasing
palm green
palm grub
palm honey
palm house
palm kale
palm kernel
palm leaf
palm lily
palm marten
palm nut
palm off
palm off on
palm oil
palm on
palm peach
palm play
palm reader
palm squirrel
palm starch
palm stay
palm sugar
palm sunday
palm swift
palm upon
palm vaulting
palm warbler
palm wax
palm weevil
palm willow
palm wine
palm worm
palm-bearing
palm-crowned
palm-fringed
palm-kernel oil
palm-leaf fan
palm-leaf hat
palm-leaved grass
palm-oil
palm-oil chop
palm-reading
palm-shaded
palm-shaped
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
camper trout
palmer worm
camper-worm
palmetto barrens
 PALMETTO FLAG
palmetto green
palmetto scrub
palmitic acid
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludal
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
pantechnicon van
panther cat
panther cowrie
panther lily
panther piss
pantie girdle
pantile lath
pantile roof
panting stringer
panto-
pantograph snaffle
pantograph trolley
pantomime dame
pantothenic acid
pants suit
panty girdle
panty hose
panty-hose
panzer division
panzer warfare
papa rock
papal brief
papal cross
papal infallibility
papanicolaou test
papaw family
paper baler
paper birch
paper blockade
paper book
paper boy
paper bush
paper carrier
paper chase
paper chaser
paper chromatography
paper clip
paper cloth
paper coal
paper colorer
paper credit
paper cutter
paper doll
paper dolls
paper flower
paper foot
paper grass
paper hanger
paper hanging
paper holder
paper hornet
paper house
paper hunt
paper jogger
paper joint
paper knife
paper lapper
paper machine
paper mill
paper money
paper mulberry
paper muslin
paper nautilus
paper nautilus
paper office
paper on the wall
paper over
paper plant
paper profit
paper profits
paper pulp
paper pulper
paper rack
paper rate
paper sculpture
paper seller
paper shale
paper sorter
paper stainer
paper standard
paper surplus
paper tape
paper tiger
paper title
paper towel
paper toweling
paper tree
paper varnisher
paper war
paper wasp
paper work
paper works
close-backed
close-baling
close-bound
close-capped
close-chasing
close-clothed
close-coated
close-coating
close-collared
close-covered
close-cutter
close-cutting
close-drilling
close-embossing
close-faced
close-filled
close-folding
close-footed
close-hangings
close-lined
close-mended
close-palisaded
close-paneled
close-patched
close-saving
close-selling
close-shell
close-shelled
close-shuttered
close-slitting
close-sparing
close-stainer
close-stamping
close-testing
close-thick
close-thin
close-using
close-varnishing
close-waxing
close-white
close-whiteness
close-windowed
paperbark maple
papery-skinned
papier coll
papier mache
papier-mache
papier-mch
papoose board
papoose-root
paprika sauce
papular rash
papulo-
papyro-
papyrus capital
papyrus column
par avance
par avion
par bond
par collection
par cour
par excellence
par exemple
par parenthese
par value
par-
par-three
para red
para rubber
para-
para-agglutinin
para-aminobenzoic acid
para-aminophenol
para-analgesia
para-anesthesia
para-appendicitis
para-cymene
para-nitrophenol
para-phenetidine
para-rescue
para-ski
para-toluidine
parabolic aerial
parabolic antenna
parabolic reflector
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitans
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parcel-terrestrial
parcel-tying
parchment bark
parchment lace
parchment paper
parchment worm
parchment-colored
parchment-covered
parchment-faced
parchment-maker
parchment-skinned
parchment-spread
pardon bowl
pardon chair
pardon me
pardon screen
pardonable pride
pare down expenses
pareira brava
parent company
parent complex
parent compound
parent element
parent fixation
parent language
parent metal
parent-in-law
parental generation
parental home
parental love
parental school
parenthetical remark
parfait amour
parheliacal ring
parhelic circle
parhelic ring
pari passu
pari-
pari-mutuel
pari-mutuel machine
pariah dog
pariah kite
parian ware
parietal bone
parietal cell
parietal eye
parietal lobe
parieto-
pars intermedia
parsley bed
parsley crown
parsley fern
parsley pie
parsley piert
parsley wreath
parsley-flavored
parsley-leaved
parsnip wine
parson bird
parson's nose
parson-bird
part and parcel
part by part
part company
part exchange
part from
part gate
part music
part of speech
part of writing
part owner
part singing
part song
part time
part with
part work
part-created
part-done
part-earned
part-finished
part-heard
part-off
part-opened
part-owner
part-score
part-song
part-time
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
partial differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
particeps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
participating preferred
participating preferred stock
participatory democracy
particle accelerator
particle counter
particle of difference
particle physics
particle separation
particle velocity
party faithful
party girl
party hack
party in power
party leader
party line
party liner
party machine
party man
party member
party per fess
party per tierce
party philosophy
party platform
party politics
party pooper
party principle
party spirit
party to a suit
party wall
party wheelhorse
party whip
party wire
party-colored
party-column ballot
party-giving
party-making
party-man
party-political
party-spirited
party-wall
party-walled
party-zealous
parula blue
parula warbler
parvi-
pas d'action
pas de basque
pas de chat
pas de cheval
pas de deux
pas de trois
pas du tout
pas seul
pasch egg
pasch-egg
paschal candle
paschal controversy
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passed over
passed up
passed-master
passenger agent
passenger capacity
passenger car
passenger density
passenger falcon
passenger list
passenger locomotive
passenger manager
passenger mile
passenger mileage
passenger pigeon
passenger plane
passenger steamer
passenger train
passenger-mile
passenger-pigeon
passer-by
passerine bird
passers-by
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion-blazing
passion-breathing
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passy-measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
past hope
past master
past mistress
past one's head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
paste water
paste-egg
paste-up
pastel blue
pastel color
pastel gray
pastel orange
pastel painting
pastel-tinted
pasteur treatment
pasteurized milk
pastor-elect
pastoral care
pastoral counseling
pastoral drama
pastoral elegy
pastoral epistle
pastoral letter
pastoral poet
pastoral poetry
pastoral prayer
pastoral staff
pastoral theology
pastrami sandwich
pastry bag
pastry chef
pastry cook
pastry cream
pastry custard
pastry flour
pastry shell
pastry tube
pasture bird
pasture grass
pasture land
pasture on
pasture rose
pasture thistle
pasty-faced
pasty-footed
pat hand
pat on the back
pat on the cheek
pat on the head
pat pend
pat yourself on the back
pat-a-cake
pat-pat
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d'amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
pat-
patres conscripti
patri-
patria potestas
patriarchal basilica
patriarchal cross
patriarchate of Alexandria
patriarchate of Antioch
patriarchate of Constantinople
patriarchate of Jerusalem
patriots' day
patristic philosophy
patristic theology
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patten maker
patter song
pattern after
pattern bargaining
pattern bombing
pattern box
pattern card
pattern designer
pattern maker
pattern of perfection
pattern reader
pattern wheel
pattern-bomb
pattes de mouche
patty shell
patty-cake
patty-shell
pauci-
paucis verbis
paul bunyan
paulo-post-future
paunch mat
pauper costs
pauper-born
pauper-bred
pauper-breeding
pauper-fed
pauper-feeding
pauper-making
pause for station identification
pauvre diable
pave the way
pave the way to
paved road
pavement ant
pavement artist
pavement epithelium
pavement light
paver of the way
pavilion hospital
pavilion roof
paving brick
paving material
paving roller
paving stone
paving tile
pavor nocturnus
paw print
paw-paw
paw-pawness
pawed-over
pawl bitt
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
payno regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measles
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference
peace dove
peace establishment
peace feelers
peace giver
peace guild
peace lover
peace of God
peace of heart
peace of mind
peace of soul
peace of spirit
peace offensive
peace offer
peace offering
peace officer
peace pipe
peace warrant
peace-abiding
peace-blessed
peace-breathing
peace-bringing
peace-enamored
peace-giving
peace-inspiring
peace-keeping force
peace-loving
peace-lulled
peace-offering
peace-preaching
peace-procuring
peace-restoring
peace-trained
peaceful change
peaceful coexistence
peaceful death
peaceful end
peaceful protest
peaceful sleep
peach aphid
peach bacteriosis
peach bark beetle
peach bell
peach blight
peach blister
peach bloom
peach blossom
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachbloom glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
pearl eye
pearl filler
pearl fisher
pearl fishing
pearl grain
pearl gray
pearl grey
pearl harbor
pearl hardening
pearl hen
pearl millet
pearl molding
pearl mussel
pearl oyster
pearl shell
pearl sheller
pearl shelling
pearl sinter
pearl spar
pearl spurry
pearl tapioca
pearl white
pearl-ash
pearl-barley
pearl-bearing
pearl-besprinkled
pearl-bordered
pearl-bush
pearl-coated
pearl-colored
pearl-crowned
pearl-encrusted
pearl-eyed
pearl-fishery
pearl-gemmed
pearl-gray
pearl-handled
pearl-headed
pearl-hued
pearl-like
pearl-lined
pearl-lipped
pearl-oyster
pearl-pale
pearl-pure
pearl-round
pearl-set
pearl-shell
pearl-studded
pearl-teethed
pearl-toothed
pearl-white
pearl-wreathed
pearl-yielding
pearly everlasting
pearly king
pearly nautilus
pearly-white
pearten up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
peasant revolt
peasant sleeve
peasant-born
pease brose
pease cod
pease pudding
peasecod breastplate
peat bank
peat bog
peat coal
peat digger
peat fiber
peat gas
peat hag
peat machine
peat moor
peat moss
peat reek
peat soil
peat spade
peat-roofed
peat-smoked
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
peccant humor
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
pecky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler's cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevish person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pel-
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
pembroke table
pen and ink
pen cancellation
pen driver
pen driving
pen feather
pen friend
pen in
pen keeping
pen machine
pen maker
pen mating
pen name
pen nib
pen pal
pen palsy
pen picture
pen point
pen portrait
pen portraiture
pen pot
pen pusher
pen pushing
pen sketch
pen up
pen yan
pen-
pen-and-ink
pen-bearing
pen-cancel
pen-clerk
pen-driver
pen-feather
pen-feathered
pen-fish
pen-pusher
pen-shaped
pen-tailed
pen-written
penal code
penal colony
penal institution
penal interest
penal law
penal retribution
penal servitude
pendent post
pendente lite
pendulum bob
pendulum clock
pendulum level
pendulum motion
pendulum press
pendulum pump
pendulum watch
pendulum wheel
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennati-
penner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pincher
penny-pinching
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
penteconta-
penthouse roof
pentobarbitone sodium
pentose nucleic acid
pentose sugar
pentyl acetate
pentyl alcohol
pentyl group
peony dahlia
peony-flowered
good at large
good in general
good of fashion
good's democracy
good's front
good's republic
good's war
good-blinding
good-born
good-devouring
good-king
good-loving
good-pestered
good-pleasing
pep pill
pep rally
pep talk
pep up
pepped up
pepper bush
pepper caster
pepper game
pepper mill
pepper oil
pepper plant
pepper pod
pepper pot
pepper red
pepper sauce
pepper spot
pepper tree
pepper turnip
pepper vine
pepper wheat
pepper-and-salt
pepper-and-salt rope
pepper-box
pepper-castor
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
per head
per mensem
per mil
per mill
per pais
per pale
per pro
per procuration
per procurationem
per saltire
per saltum
per se
per second per second
per simpliciter
per stirpes
per-boric acid
perceived noise decibel
percentage composition
percentage error
percentage tare
perception deafness
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchromic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perforcer press
perfide Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
pericline twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
periodic table
periodic wave
periodical cicada
periodical index
periodicity factor
periodontal membrane
periodontal tissue
periost-
periosteo-edema
peripatetic exercise
peripatetic journey
peripheral device
peripheral field
peripheral nervous system
peripheral neuritis
peripheral speed
peripheral vision
periscopic lens
perish the thought
perish with cold
perishing with hunger
periton-
periwig chair
periwinkle blue
perjure yourself
perjury-proof
perk up
perle cotton
permafrost table
permanent magnet
permanent magnet speaker
permanent magnetism
permanent press
permanent tooth
permanent wave
permanent way
permanent white
permanent yellow
permanent-press fabric
permanganic acid
permeate by nature
permission to enter
permissions editor
permit all
permit anything
permit bond
permonosulfuric acid
permutation lock
pernicious anaemia
pernicious anemia
pernicious weed
perniy silkworm
peroxide blond
peroxide-blond
peroxy group
peroxy radical
peroxy-
peroxymonosulfuric acid
peroxysulfuric acid
peroxysulphuric acid
perpend stone
perpend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistence of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
personality conflict
personality disintegration
personality disorder
personality disorganization
personality inventory
personality tendency
personality test
personality type
personnel director
personnel manager
persons of the drama
perspiration odor
persuade yourself
persuasion-proof
persulfuric acid
persulphuric acid
pertain to
pertaining to
pertinent to
peruvian bark
pervading attitude
pervading attitudes
pervasive fool
pervasive personality
pervasive-notioned
perverted image
pest pear
pest-house
pest-ridden
pestilence-proof
pestle and mortar
pestle-shaped
pet cock
pet expression
pet food
pet lamb
pet name
pet peeve
pet subject
pet-cock
petal pink
pete blower
pete man
peter boat
peter gunner
peter out
peter pan
peter's pence
peter-boat
peter-penny
petit bleu
petit bourgeois
petit dejeuner
petit feu
petit four
petit juror
petit jury
petit larceny
petit mal
petit point
petit serjeanty
petit souper
petit treason
petit-bourgeois
petit-juror
petit-juryman
petit-maftre
petit-maitre
petit-mattre
petit-negre
petit-noir
petite bourgeoisie
petite marmite
petite noblesse
petite perception
petites perceptions
petitio principii
petition nomination
petition-proof
petits bourgeois
petits fours
petr-
petrarchan sonnet
petri dish
petrified forest
petrified wood
petro-
petro-occipital
petrol engine
petrol station
petroleum asphalt
petroleum benzine
petroleum coke
petroleum engine
petroleum engineer
petroleum engineering
petroleum ether
petroleum grease
petroleum jelly
petroleum naphtha
petroleum spirit
petticoat breeches
petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty canon
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew renter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshiper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmaco-
pharmaco-oryctology
pharyng-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant's-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumed
pheasant-shell
pheasant-tailed
phello-
phen-
phenacily chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-phthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminopropionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phenylethylbarbituric acid
phenylformic acid
phenyllic acid
phenylmethylcarbinyl acetate
phenylpropyl acetate
phenylpyruvic oligophrenia
phi-meson
phi-phenomena
phi-phenomenon
phil-
philenor butterfly
philharmonic pitch
philo-
philosopher king
philosopher's stone
philosopher's wool
philosophers' stone
philosophic composure
philosophic doctrine
philosophic system
philosophic theory
philosophical anthropology
philosophical existentialism
philosophical existentialism
philosophical existentialist
philosophical idealism
philosophical induction
philosophical inquiry
philosophical investigation
philosophical optimism
philosophical optimist
philosophical pitch
philosophical proposition
philosophical speculation
philosophical theology
philosophical unitarianism
philosophico-
philosophy learned from examples
philosophy of being
philosophy of organism
philosophy of signs
philosophy of the Academy
philosophy of the Garden
philosophy of the Lyceum
philosophy of the Porch
philosophy of the Stoa
phleb-
phlebo-
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray
phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in
phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol
phono-
phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphoro-
phosphorous acid
phosphorous anhy-
dride
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulfide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
phote finish
photo base
photogelatin process
photograph album
photographer's model
photographic equipment
photographic magnitude
photographic memory
photographic paper
photographic realism
photographic reproduction
photographic telescope
photomicrographic camera
photomultiplier tube
photosensitive device
photosensitive devices
photosensitive glass
photostatic copy
phototypesetting machine
photovoltaic cell
photovoltaic effect
phrasal idiom
phrasal verb
phrase book
phrase mark
phrase marker
phrase structure
phrase-structure grammar
phrase-structure rule
phren-
phreno-
phthalic acid
phthalic anhydride
phthalocyanine blue
phthalocyanine green
phyco-
phyl-
phyl-
phyllo-
phylo-
physi-
physic nut
physical anthropology
physical body
physical charm
physical checkup
physical chemistry
physical condition
physical culture
physical culturist
physical dependence
physical diagnosis
physical double star
physical education
physical examination
physical fitness
physical force
physical geography
physical geology
physical jerks
physical love
physical map
physical medicine
physical metallurgy
physical meteorology
physical optics
physical pendulum
physical pleasure
physical presence
physical science
physical sensibility
physical suffering
physical therapist
physical therapy
physical unfeeling
physical world
physician in ordinary
physico-
physico-theology
physio-
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt soluti
physiological salt solution
physiologically addictive
physo-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pia-arachnoid
pia-matral
piacular offering
piano accordion
piano action
piano deal
piano duet
piano keys
piano lamp
piano nobile
piano organ
piano player
piano player roll
piano quartet
piano quintet
piano roll
piano score
piano stool
piano subito
piano trio
piano wire
piano-organ
piano-player roll
piano-violin
pica em
picaresque novel
picayune critic
piccolopasso red
pick a bone with
pick a hole
pick a quarrel
pick and choose
pick apart
pick at
pick clean
pick clock
pick dressing
pick eye
pick glass
pick hammer
pick holes
pick nits
pick off
pick on
pick out
pick over
pick rake
pick the bones of
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the check
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
pickaback plane
pickax team
picke-devant
picked dogfish
picked on
picked up
picked-hatch
picker-up
pickerel frog
pickerel-weed
picket fence
picket fort
picket guard
picket line
picket patrol plane
picket pin
picket ship
picket tail
picking and choosing
picking out
picking up
picking up the check
picking up the tab
pickle grass
pickle green
pickle moth
pickle-cured
pickle-herring
pickup arm
pickup camera
pickup current
pickup service
pickup tube
pickup unit man
picnic basket
picnic ham
picnic races
picnic shoulder
pico-
picot edge
picot stitch
pic-
picramic acid
picric acid
picro-
pictographic character
pictographic symbol
picture book
picture bride
picture card
picture cards
picture carrier
picture channel
picture control
picture detector
picture frame
picture gallery
picture hat
picture hook
picture house
picture in your mind
picture layout
picture marriage
picture mirror
picture mold
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie-baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
piecrust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochin
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
pierre-perdu
pierrot show
piezo oscillator
piezo resonator
piezo-
piezoelectric crystal
piezoelectric effect
piezoelectric microphone
piff-paff
pig Latin
pig bed
pig boiling
pig breaker
pig cart
pig dealer
pig deer
pig hutch
pig in a poke
pig in clover
pig iron
pig lead
pig man
pig metal
pig tub
pig typhoid
pig wife
pig yoke
pig's ear
pig's wash
pig-back
pig-backed
pig-bed
pig-bellied
pig-breeding
pig-bred
pig-chested
pig-dealing
pig-driving
pig-eating
pig-eyed
pig-faced
pig-farming
pig-fat
pig-footed
pig-haired
pig-haunted
pig-headed
pig-iron
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pigtail hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pike-gray
pike-snouted
piked dogfish
pil-
pilaster mass
pilaster strip
pile Pelion on Ossa
pile bent
pile bridge
pile builder
pile building
pile cap
pile drawer
pile drive
pile driver
pile dweller
pile dwelling
pile fender
pile hammer
pile house
pile in
pile it on
pile on
pile out
pile shoe
pile up
pile weave
pile weaving
pile wire
pile-built
pile-driven
pile-driver
pile-driving
pile-woven
pileated woodpecker
pilferage hazard
pilgrim bottle
pilgrim brown
pilgrim ring
pilgrim scallop
pilgrim's bottle
pilgrim's staff
pilgrimage psalm
pili nut
piling strip
pill bug
pill pipe
pill slab
pill tile
pill wood louse
pil, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pillow slip
pillow sword
pillow word
pillow-case
pillow-shaped
pilo-
pilose bent grass
pilot balloon
pilot bird
pima cotton
pimento cheese
pimento grass
pimiento cheese
pimpernel root
pimple copper
pimple metal
pin a medal on
pin basket
pin bit
pin block
pin borer
pin boy
pin bridge
pin buttck
pin cherry
pin clover
pin curl
pin down
pin fallow
pin gear
pin grass
pin horse
pin in
pin knot
pin mark
pin mill
pin money
pin oak
pin on
pin pallet
pin pallet escapement
pin point
pin pool
pin prod
pin rack
pin rail
pin rod
pin seal
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pin your hope upon
pin yourself upon
pin-brained
pin-buttocked
pin-curl
pin-eyed
pin-feather
pin-fire
pin-head
pin-hole
pin-lever escapement
pin-money
pin-pallet escapement
pin-prick
pin-spotted
pin-striped
pin-tailed
pin-tailed sand grouse
pin-toed
pin-up
pin-wheel
pin-wing
pina cloth
pinacone bug
pinacone-pinacolin
pinafore dress
pinball machine
pinbone steak
pinc-pinc
pince-nez
pincer movement
pincer-shaped
pincers movement
pincers-shaped
pinch bar
pinch effect
pinch hit
pinch hitter
pinch of snuff
pinch out
pinch pennies
pinch phenomenon
pinch point
pinch runner
pinch running
pinch-
pinch-faced
pinch-hit
pinch-hit for
pinch-hitting
pinch-run
pinch-spotted
pinched with hunger
pinched-in
pinchgut money
pincushion distortion
pincushion-flower
pindo palm
pindova palm
pine away
pine bark
pine bark aphid
pine barren
pine barrens
pine borer
pine bullfinch
pine cone
pine end
pine finch
pine for
pine grass
pine grosbeak
pine marten
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-sterned
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pinnate-leaved
pinnate-ribbed
pinnate-veined
pinnati-
pinnatifid-lobed
pinned down
pinni-
pinning down
pinochle rummy
pinon grass
pinon pine
pinpoint bombing
pinpoint precision
pins and needles
pint pot
pint-pot
pint-size
pint-sized
pintado petrel
pindle boss
pindle chain
pindle hook
pinto bean
pintsch gas
pinup girl
pinwheel roll
pinxster flower
pinxter flower
pioneer day
pioneer tunnel
pious fiction
pious fraud
pip card
pip emma
pip, the
pip-pip
pip-squeak
pipe amygdules
pipe batten
pipe beetle
pipe berth
pipe binder
pipe bomb
pipe box
pipe clay
pipe cleaner
pipe coupling
pipe cutter
pipe die
pipe down
pipe dream
pipe dreamer
pipe dreaming
pipe fitter
pipe fitting
pipe founder
pipe isinglass
pipe line
pipe major
pipe maker
pipe metal
pipe of peace
pipe off
pipe organ
pipe rack
pipe roll
pipe stop
pipe thimble
pipe thread
pipe threader
pipe tongs
pipe tool
pipe up
pipe up a song
pipe vine
pipe welder
pipe wrench
pipe your eye
pipe-bending
pipe-boring
pipe-caulking
pipe-clay
pipe-clayey
pipe-clayish
pipe-cleaning
pipe-cutting
pipe-drawn
pipe-dream
pipe-dreaming
pipe-drilling
pipe-fish
pipe-joint cement
pipe-layer
pipe-line
pipe-necked
pipe-playing
pipe-puffed
pipe-roll
pipe-shaped
pipe-smoker
pipe-stone
pipe-tapping
pipe-thawing
pipe-threading
piperonyl alcohol
piperonyl aldehyde
piperonyl butoxide
pipes of Pan
piping cord
piping hot
piping time of peace
piping times
pippin file
pippin-faced
pippin-hearted
piptostegia root
pique your interest
pique yourself
pirate bird
pirate perch
pirate stream
pis aller
pisang wax
pisci-
pish-pash
pismo clam
piss about
piss and vinegar
piss artist
piss away
piss off
piss pot
piss you off
pissed off
pissed-off
pissy-eyed
pistachia galls
pistachio green
pistachio nut
pistacia gall
pistol carbine
pistol fire
pistol grip
pistol plant
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pit prop
pit sample
pit saw
pit sawing
pit sawyer
pit tomb
pit viper
pit-a-pat
pit-black
pit-blackness
pit-coal
pit-eyed
pit-head frame
pit-headed
pit-hole
pit-marked
pit-pat
pit-patter
pit-rotted
pit-specked
pit-working
pita fiber
pita fibre
pita flax
pita floja
pitch accent
pitch and plunge
pitch and toss
pitch apple
pitch black
pitch board
pitch box
pitch camp
pitch chain
pitch chisel
pitch circle
pitch coal
pitch cone
pitch cylinder
pitch discharger
pitch factor
pitch in
pitch indicator
pitch into
pitch kettle
pitch line
pitch on
pitch opal
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pitch-blackened
pitch-blackness
pitch-blende
pitch-brand
pitch-brown
pitch-colored
pitch-dark
pitch-darkness
pitch-diameter
pitch-faced
pitch-farthing
pitch-lined
pitch-marked
pitch-ore
pitch-pine
pitch-pipe
pitch-stained
pitched battle
pitched roof
pitcher house
pitcher mold
pitcher molding
pitcher plant
pitcher-plant
pitcher-shaped
pitchfork grass
pitching indicator
pitching niblick
pitching piece
pitching tool
pitchy darkness
pith ball
pith hat
pith helmet
pith knot
pithy saying
pitot tube
pitot-static tube
pits, the
pitter-patter
pituitary body
pituitary extract
place of articulation
place of assignation
place of confinement
place of habitation or resort
place of torment
place of trade
place of vice
place of worship
place open
place out at interest
place parallel to
place reliance in
place reliance on
place seeker
place setting
place side by side
place the blame for
place the blame on
place the responsibility for
place to live
place to your account
place to your credit
place trust in
place under arrest
place under oath
place upon
place upon record
place where you hang your hat
place your feet carefully
place yourself
place-begging
place-brick
place-grabbing
place-holder
place-holding
place-hunter
place-hunting
place-kick
place-kicker
place-loving
place-money
place-name
place-names
place-naming
place-proud
place-seeking
placebo effect
placement examination
placement kick
placement test
placer claim
placer deposit
placer gravel
placer miner
placer mining
placery boom
placid-featured
placid-mannered
placing-out
placita coronae
placket hole
placo-
plagal cadence
plagal mode
plagio-
plagioclase-basalt
plagioclase-granite
plagioclase-porphyrite
plagioclase-porphyry
plagioclase-rhyolite
plague grasshopper
plague mark
plague one
plague spot
plague-beleagured
plague-free
plague-haunted
plague-infected
plague-infested
plague-ridden
plague-smitten
plague-spot
plague-spotted
plague-stricken
plain English
plain Jane
plain aerial
plain as a pikestaff
plain as day
plain as the nose on your face
plain bearing
plain chant
plain chocolate
plain clothes
plain dealer
plain dealing
plain folks
plain knit
plain lap
plain living
plain people
plain rail
plain sail
plain sailing
plain sense
plain sewing
plain song
plain speaking
plain speech
plain style
plain stylist
plain suit
plain text
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
plain-garbed
plain-headed
plain-hearted
plain-laid
plain-looking
plain-mannered
plain-pranked
plain-soled
plain-speaking
plain-spoken
plain-spokenly
plain-spokenness
plain-work
plainclothes man
plan ahead
plan expenditures
plan of action
plan on
plan out
plan position indicator
plan-
planar process
planching nail
plane angle
plane chart
plane curve
plane figure
plane geometry
plane handlers
plane iron
plane of incidence
plane polarization
plane sailing
plane surveying
plane table
plane tree
plane trigonometry
plane-faced
plane-parallel
plane-polarized
plane-shear
plane-sheer
plane-table
plane-tabler
plane-tree
planer center
planer head
planer knife
planer saw
planer tree
planet differential
planet gear
planet wheel
planet-stricken
planet-struck
planetary colony
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planesimal hypothesis
plani-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-shear
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plant gapeseed
plant geographer
plant geography
plant hair
plant hemp
plant hormone
plant house
plant insulin
plant kingdom
plant life
plant louse
plant part
plant pathology
plant physiology
plant root
plant seed
plant stem
plant thermal efficiency
plant worship
plant worshiper
plant yourself
plant-animal
plant-cutter
plant-eater
plant-eating
plantain lily
plantain squirrel
plantain tree
plantain-eater
plantain-leaved
plantar ligament
plantar nerves
plantar reflex
plantar veins
plantation acre
plantation rubber
planter's punch
planting stick
plantlike flagellate
plash wheel
plasm-
plasma body
plasma cell
plasma cell leukemia
plasma engine
plasma jet
plasma membrane
plasma substitute
plasma thromboplastic component
plasma torch
plasma transfusion
plasma-jet propulsion
plasmo-
plaster baker
plaster bond
plaster burner
plaster cast
plaster casting
plaster chopper
plaster down
plaster jacket
plaster of Paris
plaster of paris
plaster spreader
plastering trowel
plastic art
plastic bandage
plastic binding
plastic bomb
plastic explosive
plastic flow
plastic glass
plastic operation
plastic paint
plastic person
plastic plate
plastic plywood
plastic surgeon
plastic surgery
plastic tape
plastic wrap
plat du jour
plat-eye
plat-footed
plate armor
plate armour
plate battery
plate beam
plate bender
plate bone
plate calender
plate circuit
plate clutch
plate column
plate conductance
plate coupling
plate culture
plate current
plate cutter
plate cylinder
plate driller
plate engraving
plate fulcrum scale
plate gear
plate girder
plate glass
plate glazing
plate heater
plate horse
plate jig
plate keel
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
plate-glass
plate-glazed
plate-incased
plate-layer
plate-mark
plate-mounting
plate-punching
plate-roll
plate-rolling
plate-scarfing
plate-shaped
plate-shearing
plate-tossing
plated stem
platen press
plates of meat
platform balance
play a joke on
play a lone hand
play a part
play a part in
play a practical joke
play a practical joke upon
play a role
play a role in
play a scene
play a trick on
play a waiting game
play acting
play actor
play actorism
play actress
play against
play agent
play along
play around
play around with
play at
play at cross-purposes
play at dice
play at fast and loose with
play at hide and seek
play back
play backer
play ball
play bopeep
play by ear
play by the rules
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play.pretty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
pledge your word
pledge-bound
pledge-free
plein air
plein jeu
plein-air
plein-air school
plein-airist
pleio-
plenary council
plenary indulgence
plenary inspiration
plenipotentiary power
pleno jure
plenty as blackberries
plenty good enough
plenty of notice
plenty to do
plenum system
pleo-
pleroma violet
plesio-
pleur-
pleurisy root
pleuro-
pleuro-peritoneum
pleuro-pneumonia
pleuropneumonia-like organism
pliant-bodied
pliant-necked
plica polonica
plicato-
plight your faith
plight your honor
plight your troth
plighted bride
plighted faith
plighted love
plighted troth
plimsoll mark
plinth block
plinth course
plio-
plisse crepe
plod along
plop down
plot a course
plot line
plot lines
plot of ground
plot of land
plot out
plot survey
plotage increment
plotage value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plump as a dumpling
plump as a partridge
plump down
plump fact
plump for
plump in the middle
plump upon
plumpy coconut
plunge bath
plunge battery
plunge headlong
plunge in
plunge in water
plunge into
plunge into debt
plunge into difficulties
plunge into dissipation
plunge rod
plunge the world into war
plunge you into despair
plunge you into sorrow
plunged in debt
plunged in grief
plunger bucket
plunger elevator
plunger magnet
plunger piston
plunger pump
plunging fire
plunging neckline
plunk down
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la meme chose
plus ca change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumatico-hydraulic
pneumato-
pneumato-hydato-genetic
pneumo-
pneumococcal pneumonia
pneumogastric nerve
pneumonic fever
pneumonic plague
pneumono-
po-faced
poached eggs
poacher tub
poalike fescue grass
pock lymph
pock nook
pock scab
pock-arred
pock-frecken
pock-fretten
pock-marked
pock-pit
pocket battleship
pocket billiards
pocket bird
pocket bladder
pocket book
pocket boom
pocket borough
pocket burner
pocket chisel
pocket chronometer
pocket edition
pocket fiddle
pocket flap
pocket flask
pocket gopher
pocket lighter
pocket money
pocket mouse
pocket notebook
pocket picking
pocket piece
pocket plum
pocket print
pocket radio
pocket rat
pocket sheriff
pocket the affront
pocket trumpet
pocket veto
pocket watch
pocket-book
pocket-eyed
pocket-handkerchief
pocket-knife
pocket-money
pocket-size
pocket-sized
poco a poco
poco-curante
pod auger
pod borer
pod corn
pod fern
pod gimlet
pod rot
pod shrimp
pod-shaped
poddy-dodger
podo-
podophyllin resin
poe-bird
poecilo-
poet laureate
poet's narcissus
poet-artist
poet-dramatist
poet-farmer
poet-historian
poet-humorist
poet-in-residence
poet-king
poet-laureateship
poet-musician
poet-novelist
poet-painter
poet-patriot
poet-pilgrim
poet-playwright
poet-plowman
poet-preacher
poet-priest
poet-princess
poet-saint
poet-satirist
poet-seer
poet-thinker
poet-warrior
poetic division
poetic genius
poetic image
poetic imagery
poetic imagination
poetic inspiration
poetic justice
poetic kineticist
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
poetico-mystical
poetico-mythological
poetico-philosophic
poetry Muses
poetry image
poetry-proof
poets laureate
pogo stick
pogo-stick
poikilo-
point a moral
point alphabet
point at
point at issue
point bar
point blanket
point boat
point champain
point charge
point chisel
point co-ordinate
point count
point d'Angleterre
point d'appui
point d'esprit
point de Hongrie
point de gaze
point defect
point draftsman
point duchesse
point duty
point fuse
point group
point handle
point hole
point in question
point indirectly to
point lace
point of a pin
point of articulation
point of convergence
point of departure
point of difference
point of etiquette
point of flight
point of honor
point of honour
point of inflection
point of interest
point of land
point of no return
point of order
point of repose
point of sailing
point of the chin
point of time
point of vantage
point of view
point off
point out
point out to
point paper
point rail
point salient
point set
point source
point space
point switch
point system
point tense
point the finger at
point the finger of scorn
point the way
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
polar axis
polar bear
polar body
polar circle
polar coordinate
polar coordinates
polar data
polar distance
polar easterlies
polar equation
polar fox
polar front
polar lights
polar opposites
polar opposition
polar ray
polar seal
polar sequence
polar star
polar valence
polari-
polarity cap
polarity of opinion
polarized-relay armature
polarizing angle
polarizing filter
polarizing microscope
pole bean
pole chain
pole changer
pole compass
pole effect
pole flounder
pole hammer
pole horse
pole jump
pole jumper
pole lathe
pole mast
pole of cold
pole piece
pole pitch
pole plate
pole screen
pole star
pole strap
pole topgallant mast
pole trawl
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
police power
police reporter
police sergeant
police state
police station
police up
police van
police wagon
police whistle
police-up
policeman bird
policeman's helmet
policemanice station
policy loan
policy maker
policy racket
policy science
policy shop
policy year
policy-holder
polio vaccine
polish off
polish the apple
polish the platter
polish up
polished rice
polissoir wheel
polite act
polite behavior
polite commendation
polite deportment
polite literature
polite society
political activism
political activist
political affairs
political animal
political arithmetic
political ballot
political behavior
political belief
political campaign
political canard
political candidate
political caucus
political commissar
political conservatism
political convention
political corruption
political dabbler
political doubletalk
political economist
political economy
political election
political faith
political front
political geography
political government
political hack
political henchman
political hopeful
political influence
political intrigue
political intriguer
political jargon
political leader
political leadership
political liberty
political machine
political map
political movement
political nomination
political organization
political party
political patronage
political philosophy
political platform
political police
political policy
political principle
political principles
political prisoner
political program
political question
political realist
political referendum
political science
political scientist
political theory
political worker
political-minded
politician-proof
políti-co-
política-rithmetical
política-commercial
política-diplomatic
política-ecclesiastical
política-economical
política-ethical
política-geographical
política-judicial
política-military
política-moral
política-orthodox
política-peripatetic
política-religious
político-sacerdotal
política-scientific
política-social
política-theological
politics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
poll degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
poll-parrot
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
police verso
pollin-
polling booth
polling place
polling station
polly mountain
polly-fox
polly-parrot
polo ball
polo cart
polo coat
polo ground
polo neck
polo pony
polo shirt
polt-foot
poly-
poly-mountain
polyarthritis rheumatism
polychrest salt
polyconic projection
polyethylene glycol
polyglot dictionary
polygonal number
polyhedral angle
polyhedron formula
polymeric amide
polymorpho-
polymorphonuclear leucocyte
polymorphous perversity
colymorphous-perversion
polyneuritic psychosis
polynomial ring
polyphase induction motor
polyphonic music
polyphonic prose
polyphosphoric acid
polypod brake
polypody family
polysulfide rubber
polysyllabic profundity
polytechnic school
polyunsaturated fat
polyurethane rubber
polyvalent vaccine
polyvinyl acetal
polyvinyl acetate
polyvinyl alcohol
polyvinyl butyral
polyvinyl chloride
polyvinyl resin
polyvinyl-formaldehyde
polyvinylidene chloride
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommel bag
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
ponceau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-apple
pond-scum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varolii
pons asinorum
pont l'éveque
pont-levis
pontes Varolii
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
pony engine
pony express
pony grass
pony shaft
pony trekking
pony truck
pony truss
pony up
poodle dog
pooh bah
pooh pooh
pooh-bah
pooh-pooh
pooh-pooh theory
pooh-pooher
pool bottle
pool hall
pool hole
pool seller
pool table
pool your interests
pool your interests with
pooling of resources
poon up
poonga-oil
poop cabin
poop deck
poop out
poop royal
poop staff
pooped out
poor White
poor as Job
poor as Job's turkey
poor as a church mouse
poor behavior
poor bet
poor box
poor boy
poor boy sweater
poor clare
poor creature
poor cuckoldy knave
poor custody
poor debtor
poor devil
poor diction
poor excuse
poor farm
poor fist
poor gas
poor guardianship
poor health
poor husbandry
poor imitation
poor in spirit
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
pop foul
pop hero
pop in
pop into your head
pop literature
pop music
pop off
pop out
pop safety valve
pop the question
pop up
pop upon
pop valve
pop wine
pop your cherry
pop-
pop-corn
pop-gun
pop-off
pop-shop
pop-up
popcorn balls
popcorn flower
pope joan
pope's eye
pope's head
pope's nose
pope-holy
popeye catalufa
popinjay green
poplar birch
poplar borer
poplar box
poplar hawk
poplar worm
poplar-covered
poplar-crowned
poplar-flanked
poplar-leaved
poplar-lined
poplar-planted
popliteal space
popper cake
poppet head
poppet leg
poppet valve
poppet-head
popping crease
popping-crease
poppy anemone
poppy ash
poppy bee
poppy mallow
poppy oil
poppy seed
poppy-bordered
poppy-colored
poppy-crimson
poppy-crowned
poppy-flowered
poppy-haunted
poppy-head
poppy-pink
poppy-red
poppy-seed
poppy-sprinkled
poppyseed oil
pops concert
poptical art
poptical artist
popular air
popular belief
popular concert
popular etymology
popular front
popular hero
popular idol
popular literature
popular music
popular prices
popular psychology
popular regard
popular singer
popular song
popular sovereignty
popular taste
popular tune
popular vote
popular-priced
population explosion
population parameter
population pressure
population pyramid
porbeagle shark
porcelain clay
porcelain enamel
porcelain glass
porcelain green
porcelain maker
porcelain making
porcelain shell
porcelain tower
porch chair
porch climber
porch hammock
porch lamp
porch railing
porch rocker
porch screen
porch seat
porch settee
porch swing
porcupine anteater
porcupine balls
porcupine beater
porcupine boiler
porcupine crab
porcupine disease
porcupine fish
porcupine grass
porcupine man
porcupine rat
pore fungus
pore over
pork and beans
pork barrel
pork butcher
pork chop
pork eater
pork packer
pork pie
pork pig
pork store
pork tapeworm
pork-barrel legislation
pork-barrel politician
pork-barrel politics
pork-barreling
porkpie hat
porno film
pornographic art
pornographic film
pornographic literature
pornographic novel
porphyry-
porphyry chamber
porphyry copper
porphyry shell
porpoise oil
porpoise whale
port anchor
port authority
port bar
port captain
port charge
port differential
port duty
port engine
port engine ahead
port engineer
port in a storm
port of call
port of embarkation
port of entry
port risk insurance
port royalist
port superintendent
port tack
port-caustic
port-crayon
port-hole
port-mouthed
port-royal
port-sale
port-vent
port-wine
port-wine mark
port-wine stain
port-winy
portable TV set
portable drill
portable engine
portable field unit
portable radio
portable saw
portable television set
portal frame
portal vein
portal-to-portal
portal-to-portal pay
portative organ
portcullis money
porte cochere
porte-
porte-cochere
porte-monnaie
porte-monnaies
porteous roll
porter aux nues
porter chair
porter's lodge
porter-house
porterhouse steak
porthole die
portia tree
portion off
portion or point of time
portion out
portioned out
portland cement
portmanteau word
portrait bust
portrait camera
portrait flask
portrait lens
portrait painter
portrait painting
portrait sculpture
portrait statue
portraying in the mind
portuguese man-of-war
portulan chart
pose a question
pose against
pose as
pose for effect
pose over against
posigrade rocket
posing against
posing over against
position artillery
position buoy
position co-ordinate
position code converter
position coder
position data transmitter
position effect
position finder
position indicator
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
positive direction of roll
positive direction of yaw
positive electricity
positive electron
positive fact
positive feedback
positive geotropism
positive ion
positive law
positive lens
positive lift axis
positive misprision
positive organ
positive philosophy
positive polarity
positive pole
positive ray
positive reinforcement
positive statement
positive transference
positive valence
positive-ion accelerator
positively right
poss stick
poss tub
posse comitatus
possess authority
possess incriminating evidence
possess nine lives
possess one of the facts
possess sexually
possess your soul in patience
possess yourself
possess yourself of
possessed of
possessed with a demon
possessed with a devil
possessive adjective
possessive case
possessive pronoun
posset pot
possibility upon a possibility
post-Alexandrine
post-Aristotelian
post-Augustan
post-Augustinian
post-Aztec
post-Babylonian
post-Biblical
post-Caesarean
post-Cambrian
post-Carboniferous
post-Carolingian
post-Cartesian
post-Cesarean
post-Chaucerian
post-Christian
post-Christmas
post-Columbian
post-Confucian
post-Constantinian
post-Copernican
post-Crusade
post-Darwinian
post-Davidic
post-Devonian
post-Diocletian
post-Easter
post-Elizabethan
post-Eocene
post-Galilean
post-Gothic
post-Hittite
post-Homeric
post-Ibsen
post-Impressionist
post-Johnsonian
post-Jurassic
post-Justinian
post-Jutland
post-Kansan
post-Kantian
post-Leibnitzian
post-Leibnizian
post-Lent
post-Linnean
post-Marxian
post-Mendelian
post-Mesozoic
post-Miocene
post-cyclic
post-date
post-diluvial
post-diluvian
post-factum
post-fine
post-free
post-glacial
post-graduate
post-haste
post-horn
post-horse
post-house
post-impressionism
post-impressionistic
post-juvenal
post-kantian
post-mortem
post-mortem clot
post-mortem examination
post-oak grape
post-obit
post-obit bond
post-obituary
post-office address
post-office box
post-office car
post-office order
post-officer
post-ordinar
post-partum
post-pliocene
post-remogeniture
post-road
post-signer
post-tension
post-tertiary
post-town
postage currency
postage due stamp
postage envelope
postage label
postage meter
postage stamp
postage-due stamp
postal card
postal clerk
postal currency
postal delivery zone
postal meter
postal note
postal order
postal service
postal system
postal union
postal zone
postcard bander
poste restante
poster bed
poster color
poster paint
poster painting
posterio-occlusion
postern door
postern gate
postero-
postgraduate education
postgraduate school
posthole auger
posthole spade
posthumous fame
posthypnotic suggestion
posting house
postlapsarian nature
postlapsarian state
postmaster general
postmaster-generalship
postmasters general
postmistress-ship
postmortem diagnosis
postmortem examination
postnasal drip
postoperative shock
postpainterly abstraction
postpainterly abstractionist
posture maker
posture making
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valliance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobbler
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium biartrate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypantoiminate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulphate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating
potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
pottle-bodied
pottle-crowned
pottle-deep
potty-chair
pou de ciel
pou sto
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poul-de-soie
poulter's measure
poultry breeder
poultry breeding
poultry buyer
poultry buyer
poultry car
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
poultry show
poultry stall
poultry tick
poultry wire
poultry yard
pounce bag
pounce box
pounce on
pounce paper
pounce tree
pounce upon
pounchet box
pounchet-box
pouncing paper
pound Scots
pound apothecaries'
pound avoirdupois
pound away
pound boat
pound brush
pound cake
pound degree
pound in
pound lock
pound mile
pound net
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-folly
pound-foolish
pound-foolishness
pound-foot
pound-force
pound-trap
pound-weight
pounds in after trim
pounds of thrust
pour a broadside into
pour balm into
pour balm on
pour balm upon
pour down
pour down the drain
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-cafe
pousse-café
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
powder down
powder flag
powder flask
powder grain
powder gray
powder horn
powder house
powder keg
powder magazine
powder maker
powder metallurgy
powder mill
powder monkey
powder paper
powder pimperlimpimp
powder post
powder puff
powder room
powder ship
powder snow
powder train
powder-black
powder-blue
powder-charged
powder-down
powder-flask
powder-gray
powder-horn
powder-laden
powder-marked
powder-monkey
powder-post beetle
powder-posted
powder-puff
powder-scorched
powder-tinged
powdered milk
powdered soap
powdered sugar
powdery mildew
power amplifier
power base
power behind the throne
power brake
power brakes
power broker
power cab
power cable
power chain
power cruiser
power cut
power dive
power drill
power duster
power elite
power engineer
power engineering
power factor
power for good
power gas
power grab
power jack
power line
power load
power loading
power loom
power meter
power microscope
power mower
power of appointment
power of attorney
power of expression
power of mind
power of mind over matter
power of money
power of reason
power of sight
power of suggestion
power of the keys
power of thought
power off
power pack
power plant
power play
power plug
power point
power politics
power press
power pump
power punch
power rail
power reactor
power relay
power sander
power saw
power sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-bredener reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
power-plant engineer
power-plant engineering
power-political
power-riveting
power-saw
power-sawed
power-sawing
power-sawn
power-seeking
power-supply engineer
powered flight
powerful like
powers of darkness
powers that be
powers that be, the
pox-marked
practical ability
practical art
practical consequence
practical joke
practical joker
practical knowledge
practical mechanics
practical mind
practical nurse
practical person
practical piece
practical politics
practical prop
practical reason
practical scientist
practical skill
practical test
practical theology
practical utility
practical wisdom
practical-minded
practical-mindedness
practice a profession
practice at the bar
practice curve
practice domesticity
practice fraud upon
practice landing
practice law
practice medicine
practice nonviolence
practice of medicine
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
praef.
praedium dominans
praedium serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakeroot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Koranic
pre-Latin
pre-Laurentian
pre-Linnaean
pre-Linnean
pre-Luciferian
pre-Lutheran
pre-Malay
pre-Malayan
pre-Malaysian
pre-Marxian
pre-Mendelian
pre-Messianic
pre-Methodist
pre-Mohammedan
pre-Mongolian
pre-Mosaic
pre-Moslem
pre-Muslim
pre-Mycenaean
pre-Napoleonic
pre-Newtonian
pre-Noachian
pre-Norman
pre-Norse
pre-Osmanli
pre-Palaeozoic
pre-Paleozoic
pre-Patrician
pre-Pauline
pre-Permian
pre-Persian
pre-Petrine
pre-Pharaonic
pre-Phidian
pre-Polish
pre-Pueblo
pre-Puebloan
pre-Raphael
pre-Raphaelism
pre-Raphaelite
pre-Raphaelitic
pre-Raphaelitish
pre-Raphaelitism
pre-Reconstruction
pre-Reformation
pre-Renaissance
pre-Restoration
pre-Revolution
pre-Roman
pre-Sargonic
pre-Saxon
pre-Semitic
pre-Shakespeare
pre-Shakespearean
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
pre-editorially
pre-educate
pre-education
pre-educational
pre-educationally
pre-effect
pre-effective
pre-effectively
pre-effectual
pre-efficiency
pre-efficient
pre-efficiently
pre-effort
pre-elect
pre-election
pre-elective
pre-electric
pre-electrical
pre-electrically
pre-elemental
pre-elementary
pre-eligibility
pre-eligible
pre-eliminate
pre-elimination
pre-eliminator
pre-emancipation
pre-embarass
pre-embarassment
pre-embodiment
pre-embody
pre-emergency
pre-eminence
pre-eminency
pre-eminent
pre-eminently
pre-eminence
pre-emotion
pre-emotional
pre-emperor
pre-employ
pre-employee
pre-employer
pre-employment
pre-empt
pre-emptible
pre-emption
pre-emption right
pre-emptioner
pre-emptive
pre-emptively
pre-emptor
pre-emptory
pre-enable
pre-enact
pre-enaction
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-equalization
pre-equip
pre-equipment
pre-equity
pre-erect
pre-erection
pre-erupt
pre-eruption
pre-eruptive
pre-extensive
pre-extensively
pre-extent
pre-extinction
pre-extinguish
pre-extinguishment
pre-extract
pre-extraction
pre-fabulous
pre-free-trade
pre-glacial
pre-ignition
pre-judicial
pre-judiciary
pre-man
pre-operculum
pre-option
pre-orbital
pre-ordain
pre-ordinate
pre-preference
pre-raphael
pre-raphaelite
pre-raphaelitism
pre-shrunk
pre-socratic
pre-sternum
pre-teens
preach to the winds
preacher bird
preaching brother
preaching friar
preaching-house
prealternate molt
prebasic molt
prebendal stall
precedent condition
precession of the equinoxes
precinct captain
precinct house
precinct leader
precious coral
precious heart
precious little
precious metal
precious metals
precious moonstone
precious opal
precious rascal
precious stone
precipitable water
precipitate yourself
precipitation hardening
precision balance
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
preen the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim
prefer a petition
prefer charges
prefer to
prefer your own company
preference for the best
preference primary
preference share
preference shares
preference stock
preferential shop
preferential system
preferential treatment
preferential voting
preference bond
preferne freight
preferred lie
preferred position
preferred stock
prefree-trade
prefrontal leucotomy
prefrontal lobotomy
pregenital fixation
pregnant imagination
pregnant moment
pregnant of good
pregnant with meaning
prehensile tail
prehistoric animal
prehistoric animals
prehistoric anthropology
prehistoric archaeology
prehistoric man
prehistoric races
prejudice against
prejudice the issue
prejudice-proof
prelapsarian state
prelate nullius
preliminary act
preliminary approach
preliminary convention
preliminary examination
preliminary measure
preliminary sign
preliminary signal
preliminary step
preliminary study
premarital relations
premarital sex
premature acceptation
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
press your hand
press your suit
press, the
press-agent
press-agentry
press-bed
press-forgé
press-gang
press-made
pressure microphone
pressure mine
pressure neuropathy
pressure nozzle
pressure point
pressure producer
pressure pump
pressure recorder
pressure register
pressure regulator
pressure ridge
pressure saucepan
pressure sense
pressure siphon
pressure spot
pressure spring
pressure stage
pressure suit
pressure syllable
pressure tank
pressure transducer
pressure transmitter
pressure tube
pressure valve
pressure warrant
pressure welding
pressure wire
pressure-cook
pressure-fixing
pressure-group politics
pressure-reciprocating
pressure-reducing
pressure-regulating
pressure-relief ring
pressure-relieving
pressure-testing
pressure-vacuum valve
pressureless space
pressurized suit
pressyou hard
prest money
prest-money
prestation money
prester john
prestige dialect
presto change
presto cambio
prestressed concrete
presume on
presume upon
presumption of fact
presumption of innocence
presumptive evidence
presumptive heir
presumptive right
pretend not to see
pretend to
pretend to be
preter-
preterit-present
preterite-present
preterito-present
preterito-presential
pretium puellae
pretty as a picture
pretty damned quick
pretty good
pretty kettle of fish
pretty lies
pretty much
pretty much the same
pretty near
pretty pass
pretty penny
pretty pickle
pretty piece of business
pretty predicament
pretty up
pretty well
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
preventer backstay
preventer plate
preventer stay
prevention-proof
preventive custody
preventive dentist
preventive dentistry
preventive detention
preventive law
preventive measure
preventive medicine
preventive treatment
preventive war
previous question
previous time
previous to
prey on
prey on the mind
prey to blind fear
prey to malaise
prey upon
pribble-prabble
price ceiling
price control
price controls
price current
price cut
price determination
price discrimination
price fall
price fixing
price freeze
price index
price level
price list
price of money
price out of the market
price range
price reduction
price ring
price support
price supports
price tag
price war
price-cut
price-cutter
price-cutting
price-deciding
price-enhancing
price-fixing
price-lowering
price-raising
price-reducing
price-ruling
price-stabilizing
prices current
prick ear
prick mark
prick post
prick punch
prick shaft
prick shooting
prick song
prick the bubble
prick up
prick up the ears
prick up your ears
prick wheel
prick your balloon
prick-ear
prick-eared
prick-madam
prick-post
prick-seam
prick-song
prick-timber
pricking of conscience
pricking of heart
pricking wheel
pricking-up
prickle cell
prickle grass
prickle-back
prickle-cone pine
prickley heat
prickly ash
prickly glasswort
prickly grass
prickly heat
prickly lettuce
priest-poet
priest-prince
priest-prompted
priest-ridden
priest-riddenness
priest-ruler
priest-statesman
priest-surgeon
priest-wrought
prim up
prim-behaving
prim-lipped
prim-looking
prim-mannered
prim-mouthed
prim-notioned
prim-seeming
prima ballerina
prima donna
prima facie
prima facie case
prima facie evidence
prima inter pares
prima materia
prima vista
prima-facie evidence
primal chaos
primal ignorance
primal stupidity
primal therapy
primary accent
primary anemia
primary atypical pneumonia
primary battery
primary burial
primary cell
primary coil
primary color
primary colour
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primary pigment
primary processes
primary quality
primary road
primary scholar
primary school
primary schooler
primary sex character
primary sex characteristic
primary spermatocyte
primary stress
primary syphilis
primary trainer
primary type
primary wave
prime coat
prime cost
prime field
prime focus
prime hours
prime ideal
prime interest rate
prime interval
prime investment
prime issue
prime meridian
prime minister
prime ministry
prime mover
prime number
prime number theorem
prime of life
prime of the morning
prime of the year
prime rate
prime song
prime the pump
prime time
prime tone
prime vertical
prime-ministerial
prime-ministership
prime-ministry
primed for
primeval forest
priming boiler
priming charge
primitive Indo-European
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose green
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
prince's feather
prince's pipe
prince's-feather
prince's-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primate
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
principal idea
principal ideal
principal keeper
principal parts
principal plane
principal point
principal quantum number
principal rafter
principal series
principal sum
principal value
principle of complementarity
principle of corres
principle of correspondence
principle of desire
principle of equivalence
principle of faith
principle of government
principle of indeterminacy
principle of least action
principle of relativity
principle of superposition
principle of virtual work
prink out
prink up
print cloth
print cutter
print media
print medium
print out
print shop
print trimmer
print-out
print-out paper
printed antenna
printed circuit
printed matter
printed paper
printer's copy
printer's devil
printer's error
printer's imprint
printer's ink
printer's mark
printer's reader
printer's ream
printing calculator
printing equipment
printing frame
printing ink
printing machine
printing office
printing paper
printing plate
printing press
printing surface
printing telegraph
printing-house
printing-in
printing-out
printing-out paper
printing-press
prior consultation
prior right of purchase
prior to
prism binocular
prism binoculars
prism diopter
prism glass
prism level
prism spectrometer
prism spectroscope
prism telescope
prismatic coefficient
prismatic compass
prismatic layer
prismatic telescope
prison base
prison bird
prison breach
prison camp
prison fever
prison guard
prison house
prison pallor
prison psychosis
prison term
prison ward
prison-bound
prison-bred
prison-bursting
prison-caused
prison-escaping
prison-free
prison-house
prison-made
prison-making
prison-taught
prisoner of war
prisoner's base
prisoner-of-war camp
prisoner-of-war stockade
prisoners' bars
prisse papyrus
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
prize money
prize open
prize out
prize ring
prize sap
prize winner
prize-fight
prize-fighter
prize-giving
prize-playing
prize-ring
prize-taking
prize-winning
pro and con
pro bono publico
pro forma
pro forma balance sheet
pro memoria
pro patria
pro patria mori
pro rata
pro tanto
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Alaskan
pro-Alsatian
pro-American
pro-Spain
pro-Spanish
pro-Sudanese
pro-Sweden
pro-Swedish
pro-Swiss
pro-Switzerland
pro-Syrian
pro-Tunisian
pro-Turkey
pro-Turkish
pro-Unitarian
pro-United States
pro-Uruguayan
pro-Venezuelan
pro-Vietnamese
pro-West
pro-Western
pro-Westerner
pro-Whig
pro-Yugoslav
pro-Yugoslavian
pro-Zionism
pro-Zionist
pro-am
pro-art
pro-budgeting
pro-bus
pro-cathedral
pro-city
pro-co-operation
pro-form
pro-government
pro-immigrationist
pro-infinitive
pro-man
pro-modern
pro-observance
pro-oceanic
pro-ode
pro-oestrous
pro-oestrum
pro-oestrus
pro-oestrys
pro-opera
pro-operation
pro-opic
pro-opium
producing once more
producing over
product engineer
production control
production curve
production editor
production goods
production line
production manager
production number
productive capacity
productive imagination
profane language
profane oath
profane swearing
profane, the
profanity-proof
profanum vulgus
profession of belief
profession of faith
professional athlete
professional consultant
professional education
professional ethics
professional killer
professional mourner
professional musician
professional name
professional politician
professional soldiers
professional standing
professional status
professor emeritus
professor ordinarius
proffer aid
proffer yourself
proficiency badge
proficient in
profile board
profile cutter
profile drag
profile line
profile machine
profile map
profile microscope
profile paper
profile plan
profiling machine
profit and loss
profit and loss account
profit by
profit sharing
profit system
profit taking
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profound knowledge
profound secret
profound sense
profound sleep
profound thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
prompt the mind
prompter's box
prone before
prone float
prone pressure method
prone to
prong box
prong budding
prong chuck
prong die
prong hoe
prong key
prong-horned
pronghorn antelope
pronounce judgment
pronounce on
pronounce sentence
prony brake
proof against
proof armor
proof before letter
proof charge
proof coin
proof correction
proof leaf
proof paper
proof plane
proof planer
proof press
proof sheet
proof spirit
proof stress
proof-correct
proof-proof
proof-spirit
prop joint
prop man
prop root
prop up
prop word
prop-
prop-wash
propaganda novel
propaganda-proof
propanoic acid
propeller horsepower
propeller plane
propeller post
propeller race
propeller shaft
propeller thrust
propeller torque
propeller wash
propeller-drive gas turbine
propeller-jet engine
propelling charge
propelling nozzle
propelling pencil
propenyl alcohol
propenyl group
propenyl radical
proper adjective
proper claim
proper fraction
proper function
proper motion
proper name
proper noun
proper occasion
proper piloting
proper subalgebra
proper subset
proper task
proper thing
proper to
proper value
propertied person
property damage insurance
property insurance
property line
property man
property master
property owner
property right
property rights
property roll
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
propjet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 36130
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-
protean actor
protected anchorage
protected cruiser
protection forest
protection racket
protective clothing
protective coloration
protective covering
protective custody
protective deck
protective mimicry
protective slope
protective stock
protective system
protective tariff
protective umbrella
proud-prancing
proud-quivered
proud-spirited
proud-stomached
provable fact
provascular tissue
prove false
prove out
prove the contrary
prove to be
prove true
prove up
prove your point
proved fact
proverbial saying
provice-chancellor
provide a hedge
provide a rationale
provide against
provide against a rainy day
provide capital for
provide for
provide for a rainy day
provide money for
provide the wherewithal
provide with a roof
provided always
provided for
provided school
provided that
provident care
provident club
provident society
provincial court
provincial legislature
provincial parliament
provincial police
provincial tax
proving ground
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marshall
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudential administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseud-
pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo benefactor
pseudo benefactress
pseudo benevolence
pseudo bible
pseudo biographer
pseudo biography
pseudo biology
pseudo bird
pseudo bishop
pseudo boa
pseudo bookcase
pseudo boy
pseudo bride
pseudo broker
pseudo brokerage
pseudo brother
pseudo cancellation
pseudo candidacy
pseudo candidate
pseudo candor
pseudo captive
pseudo capture
pseudo catholic
pseudo catholicism
pseudo census
pseudo champion
pseudo championship
pseudo charity
pseudo chemist
pseudo chemistry
pseudo citizen
pseudo citizenship
pseudo clergy
pseudo clergyman
pseudo clerk
pseudo client
pseudo club
pseudo college
pseudo competitor
pseudo conclusion
pseudo cone
pseudo confession
pseudo confessional
pseudo confirmation
pseudo conflict
pseudo connection
pseudo consent
pseudo conservator
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation
pseudo culture
pseudo date
pseudo death
pseudo declaration
pseudo deficit
pseudo delegate
pseudo delegation
pseudo democracy
pseudo deputation
pseudo deputy
pseudo devotee
pseudo devotion
pseudo dike
pseudo diplomacy
pseudo diplomat
pseudo distance
pseudo distribution
pseudo distributor
pseudo divination
pseudo divine
pseudo divinity
pseudo doctor
pseudo donation
pseudo donor
pseudo drama
pseudo dramatist
pseudo duke
pseudo earl
pseudo economics
pseudo economy
pseudo editor
pseudo editorial
pseudo education
pseudo educator
pseudo election
pseudo electorate
pseudo emotion
pseudo endeavor
pseudo enthusiasm
pseudo enthusiast
pseudo episcopacy
pseudo equality
pseudo ethics
pseudo etymologist
pseudo etymology
pseudo evangelist
pseudo example
pseudo exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo ghost
pseudo healer
pseudo heart
pseudo heathen
pseudo hero
pseudo humanism
pseudo humanist
pseudo humanitarian
pseudo husband
pseudo identity
pseudo impartiality
pseudo independence
pseudo information
pseudo insanity
pseudo inspiration
pseudo internationalism
pseudo internationalist
pseudo invalid
pseudo invalidism
pseudo island
pseudo isle
pseudo jaundice
pseudo judge
pseudo judgment
pseudo justice
pseudo knight
pseudo label
pseudo learning
pseudo legality
pseudo legend
pseudo legislation
pseudo legislator
pseudo liberalism
pseudo liberality
pseudo liquidation
pseudo literature
pseudo loan
pseudo lord
pseudo mahogany
pseudo marble
pseudo marquis
pseudo marriage
pseudo martyr
pseudo martyrdom
pseudo masculinism
pseudo masculinity
pseudo masterpiece
pseudo medievalism
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
pseudo parallel
pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
pseudo reconciliation
pseudo reform
pseudo reformation
pseudo reformatory
pseudo reformer
pseudo registration
pseudo relation
pseudo relationship
pseudo relative
pseudo religion
pseudo republic
pseudo residence
pseudo resident
pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo specialty
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperance
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Assyrian
pseudo-Australian
pseudo-Austrian
pseudo-Babylonian
pseudo-Baptist
pseudo-Belgian
pseudo-Bohemian
pseudo-Bolivian
pseudo-Brahman
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearean
pseudo-Shakespearian
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-uniseptate
pseudo-urate
pseudo-urea
pseudo-uric
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psilo-
psych out
psych-
psychasthenic reaction
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psychic bid
psychic blindness
psychic determinism
psychic energizer
psychic energy
psychic epilepsy
psychic income
psychic monism
psychic phenomena
psychic research
psychical phenomena
psychically blind
psycho-
psycho-asthenics
psycho-physic
psycho-physical
psycho-therapeutic
psychoactive drug
psychoactive drugs
psychoanalytic method
psychoanalytic theory
psychoanalytic therapy
psychogenic disease
psychological block
psychological complex
psychological conditioning
psychological counseling
psychological defenses
psychological dependence
psychological dictionary
psychological evaluation
psychological fixation
psychological hedonism
psychological logic
psychological medicine
psychological moment
psychological novel
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychro-
psychrometric chart
psyllium seed
pterido-
pterido-
ptero-
pteroic acid
pteryloyglutamic acid
pteryloylmonoglutamic acid
pterygo-
pterygoid bone
pterygoid process
ptiolo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
pubic hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public library
public man
public motive
public notice
public nuisance
public official
public opinion
public orator
public ownership
public park
public policy
public press
public print
public prosecutor
public records
public relations
public relations man
public relations officer
public report
public sale
public school
public servant
public service
public speaker
public speaking
public speech
public spirit
public square
public statute
public telephone
public television
public till
public tit
public tranquillity
public treasury
public trough
public utilities
public utility
public walk
public welfare
public works
public worship
public-address system
public-liability insurance
public-minded
public-mindedness
public-official bond
public-opinion poll
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
publicity man
publicity manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publish the banns
publisher's catalog
publisher's list
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
puling infant
pull a blooper
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull-
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulley oiler
pulley stile
pulley tackle
pulley tap
pulley-shaped
pulling boat
pulling down
pulling out
pulling power
pulling together
pulling-out
pullorum disease
pullulate with
pully-haul
pully-hauly
pulmo-
pulmonary artery
pulmonary emphysema
pulmonary insufficiency
pulmonary phthisis
pulmonary stenosis
pulmonary tuberculosis
pulmonary valve
pulmonary vein
pulmoni-
pulmono-
pulp canal
pulp canal therapy
pulp canal treatment
pulp cavity
pulp chamber
pulp engine
pulp lead
pulp machine
pulp magazine
pulp nodule
pulp plaster
pulpilyl galaxy
pulpit cloth
pulpit cross
pulpit rock
pulsating direct current
pulsating star
pulsating universe
pulsating universe theory
pulsation pump
pulsation theory
pulse analyzer
pulse deficit
pulse family
pulse generator
pulse glass
pulse height analyser
pulse ionization chamber
pulse jet
pulse jet helicopter
pulse modulation
pulse pressure
pulse radar
pulse rate
pulse transformer
pulse wave
pulse-jet
pulse-jet engine
pulse-jet propulsion
pulse-modulated radar
pulse-time modulation
pulsejet engine
pulsion diverticulum
pulsus alternans
pulvering day
pulverizer harrow
pumice soap
pumice stone
pumice-stone
pump bilge
pump bob
pump box
pump brake
pump cylinder
pump doctor
pump drill
pump for information
pump full of lead
pump gun
pump handle
pump house
pump out
pump priming
pump rod
pump room
pump sole
pump spear
pump staff
pump up
pump well
pump-action
pump-back method
pump-handle
pump-handler
pump-priming
pump-room
pump-well
pumping engine
pumping plan
pumping-back method
pumpkin ash
pumpkin head
pumpkin pine
pumpkin seed
pumpkin tree
pumpkin-colored
pumpkin-headed
pumpkin-seed
pumpkin-seed oil
puna grass
punch barrel
punch bowl
punch card
punch cards
punch cattle
punch cutter
punch full of holes
punch holder
punch house
punch in
punch ladle
punch lifter
punch line
punch mark
punch mat
punch out
punch pliers
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunk
punch-hole
punch-marked
punch-up
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitive damages
punitive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
pure-food law
pure-heartedness
pure-minded
purebred horse
pureness of heart
purgatory hammer
purge away
purge yourself
purging nut
purification flower
purified cotton
purine base
purity rubric
purl stitch
purlieu-man
purlin plate
puro-
purple and fine linen
purple beard grass
purple bent
purple boneset
purple cestrum
purple chokeberry
purple color
purple daisy
purple finch
purple fish
purple fishery
purple foxglove
purple gallinule
purple heart
purple heron
purple lake
purple loosestrife
purple martin
purple medic
purple melick grass
purple mombin
purple mullein
purple oat
purple of Cassius
purple pall
purple passage
purple passages
purple patch
purple patches
purple rock cress
purple sage
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robbed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purse-string suture
purse-swollen
purslane speedwell
purslane tree
pursuant to
pursue a policy of
pursue a strategy
pursue an inquiry
pursue the arts of peace
pursue your education
pursuit airplane
pursuit pendulum
pursuit plane
pursuit squadron
pus basin
pus cell
pus pan
push about
push along
push around
push aside
push back
push bicycle
push bolt
push broach
push broom
push button
push car
push cycle
push down
push drill
push fit
push forward
push from your thoughts
push hoe
push in
push moraine
push off
push on
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
pussle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juju on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of face
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the touch on
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another's shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-puter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
putt-putt
putter-forth
putter-in
putter-off
putter-on
putter-out
putter-through
putter-up
putting away
putting cleek
putting down
putting green
putting in
putting in order
putting on
putting on airs
putting out
putting out the eyes
putting stone
putting the best color on
putting together
putting two and two together
putting yourself between
putting-off
putting-stone
putty coat
putty eye
putty gloss
putty in your hands
putty knife
putty powder
putty-colored
putty-faced
putty-jointed
putty-looking
putty-powdered
putty-stopped
puzzle box
puzzle canon
puzzle lock
puzzle out
puzzle over
puzzle-brain
puzzle-cap
puzzle-headed
puzzle-monkey
puzzle-wit
puzzling problem
py-
pycno-
pye-dog
pygmy glider
pygmy weasel
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidine base
pyrite type
pyrite yellow
pyrito-
pyritohedral group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyro-
pyrrole red
pyrrole red
pyrrole red
pyrro-
pyruvic acid
pyruvic acid
pyruvic acid
pyruvic acid
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrant compass
quadrant electrometer
quadrant plate
quadraphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrate-quadrate component
quadrature of the circle
quadrennial circus
quadri-
quadri-invariant
quadric surface
quadrilateral spinnaker
quadrille ruling
quadrimum merum
quadru-
quadruple counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d’orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quaking grass
quaking-grass
qualified negative
qualified veto
qualifying examination
qualitative analysis
quality binding
quality control
quality curve
quality factor
quality loop
quality stock
quality-control inspector
qualm of conscience
qualm-sick
quam libet
quandong nut
quantitative analysis
quantitative inheritance
quantitative meter
quantity control
quantity mark
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ail
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter grain
quarter hollow
quarter horse
quarter hour
quarter ill
quarter iron
quarter ladder
quarter lift
quarter light
quarter line
quarter miler
quarter nelson
quarter note
quarter of a century
quarter of a hundred
quarter pillar
quarter pitch
quarter plate
quarter point
quarter points
quarter rail
quarter rest
quarter round
quarter rudder
quarter screw
quarter section
quarter semitone
quarter sessions
quarter step
quarter stock
quarter tie
quarter tone
quarter watch
quarter-bound
quarter-breed
quarter-cast
quarter-cleft
quarter-cut
quarter-day
quarter-deck
quarter-decker
quarter-dollar
quasi argument
quasi aristocracy
quasi aristocrat
quasi army
quasi arrangement
quasi art
quasi artist
quasi aspiration
quasi asset
quasi assignment
quasi assistance
quasi assurance
quasi asylum
quasi athlete
quasi attachment
quasi attack
quasi attainment
quasi attempt
quasi attendant
quasi attention
quasi attorney
quasi auditor
quasi author
quasi authority
quasi baby
quasi ballot
quasi bank
quasi banker
quasi bankruptcy
quasi banquet
quasi baptism
quasi bargain
quasi basis
quasi battle
quasi beginner
quasi belief
quasi beneficiary
quasi benevolence
quasi biography
quasi bird
quasi blessing
quasi blockade
quasi blunder
quasi body
quasi broker
quasi brother
quasi calamity
quasi caller
quasi cancellation
quasi candidate
quasi candor
quasi captain
quasi cause
quasi celebration
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quasi charity
quasi cheer
quasi chemistry
quasi circulation
quasi citizen
quasi civilization
quasi clairvoyance
quasi client
quasi climax
quasi club
quasi co-operation
quasi collapse
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quasi collection
quasi collector
quasi college
quasi colloquial
quasi combat
quasi comedy
quasi comfort
quasi command
quasi compact
quasi competition
quasi competitor
quasi compliance
quasi compliment
quasi comprehension
quasi compromise
quasi concern
quasi concession
quasi conclusion
quasi conference
quasi confession
quasi confinement
quasi confirmation
quasi conflict
quasi conformance
quasi congratulation
quasi congress
quasi conjunction
quasi connection
quasi conquest
quasi conscience
quasi consent
quasi consequence
quasi consideration
quasi consignment
quasi consolation
quasi consolidation
quasi constitution
quasi construction
quasi consulation
quasi consumption
quasi contempt
quasi contest
quasi continent
quasi continuation
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quasi contrast
quasi contribution
quasi control
quasi convenience
quasi convention
quasi conversation
quasi conveyance
quasi conviction
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quasi copula
quasi corporateness
quasi corporation
quasi correction
quasi council
quasi coupon
quasi court
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quasi cousin
quasi craft
quasi creation
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quasi criticism
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quasi destruction
quasi detention
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quasi protection
quasi provocation
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quasi-vocationally
quasi-warfare
quasi-warranted
quasi-wealthy
quasi-whispered
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
quaternian algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
queen-cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
queen regent
queen regnant
queen rod
queen shell
queen snake
queen staysail
queen stitch
queen substance
queen truss
queen's English
queen's birthday
queen's counsel
queen's evidence
queen's highway
queen's scout
queen's shilling
queen's ware
queen's wreath
queen-mother
queen-of-the-meadow
queen-of-the-prairie
queen-post
queen-post truss
queen-size bed
queens-ware
queer cuffin
queer duck
queer fish
queer in the head
queer potato
queer specimen
queer street
queer the works
queer-bashing
queer-eyed
queer-faced
queer-headed
queer-legged
queer-looking
queer-made
queer-notioned
queer-shaped
queer-spirited
queer-tempered
queerqueer cuffin
queez-madam
quelque chose
quench hook
quenching bath
quenouille training
quercitron lake
quercitron oak
querulous person
query mark
quest after
question at issue
question before the house
question in your mind
question mark
question master
question of fact
question of law
question stop
question time
question-and-answer session
question-begging
question-mark
quetzal bird
queue up
queueing theory
qui s'excuse s'accuse
qui tam
qui transtulit sustinet
qui vive
qui-hi
qui-hy
quia-quia
quick as a wink
quick as lightning
quick as thought
quick assets
quick bread
quick ear
quick exit
quick fire
quick freezing
quick grass
quick hunch
quick inspection
quick kick
quick look
quick march
quick on the draw
quick on the trigger
quick on the uptake
quick one
quick parts
quick pull
quick sight
quick sighted
quick step
quick stick
quick temper
quick thinking
quick time
quick to take offense
quick trick
quick water
quick wit
quick-acting
quick-break switch
quick-burning
quick-change
quick-change artist
quick-coming
quick-compounded
quick-conceiving
quick-decaying
quick-designing
quick-devouring
quick-drawn
quick-eared
quick-fading
quick-falling
quick-fire
quick-firer
quick-firing
quick-flowing
quick-freeze
quick-freezer
quick-freezing
quick-froze
quick-frozen
quick-glancing
quick-gone
quick-growing
quick-guiding
quick-gushing
quick-handed
quick-laboring
quick-lunch
quick-lunch counter
quick-minded
quick-moving
quick-nosed
quick-paced
quick-piercing
quick-questioning
quick-raised
quick-returning
quick-rolling
quick-running
quick-saver
quick-scented
quick-scenting
quick-selling
quick-setting
quick-shifting
quick-shutting
quick-sighted
quick-sightedness
quick-speaking
quick-spirited
quick-sputtering
quick-stepping
quick-talking
quick-tempered
quick-thinking
quick-thoughted
quick-thriving
quick-voiced
quick-winged
quick-witted
quick-wittedly
quick-wittedness
quick-wrought
quicken tree
quicken your pace
quickening grass
quickie strike
quickness to take offense
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quill bark
quill bit
quill drive
quill driver
quill driving
quill fern
quill fly
quill gear
quill nib
quill pen
quill pig
quill worts
quill-less
quill-like
quill-tailed
quillai bark
quillback carpsucker
quilting bee
quilting cotton
quin-
quince curculio
quince wine
quince yellow
quince-seed gum
quince-seed mucilage
quinhydrone electrode
quinic acid
quinine bush
quinine cherry
quinine flower
quinine herb
quinine plant
quinine tree
quinine water
quinnat salmon
quino-
quino-quinoline dye
quinoline yellow
quinone diazide
quinone diimine
quinone oxime
quinova bitter
quinque-
quinq-
quinc-
quintuple counterpoint
quintuple point
quintuple time
quintuple-nerved
quintuple-ribbed
quip at
quips and cranks
quirk bead
quirk molding
quit cold
quit of
quit the field
rabbit-shouldered
rabbit-tail grass
rabbitskin glue
rabble rout
rabble-charming
rabble-chosen
rabble-court
rabble-curbing
rabble-rouse
rabble-roused
rabble-rouser
rabble-rousing
raccoon dog
raccoon fox
raccoon grape
raccoon oyster
raccoon perch
race against time
race board
race boat
race car
race card
race cloth
race cup
race extermination
race glass
race ground
race hatred
race horse
race horses
race knife
race meeting
race memory
race of man
race off
race plate
race prejudice
race problem
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
rack pin
rack punch
rack rail
rack railway
rack rent
rack saw
rack the rents
rack up
rack up the rents
rack wheel
rack your brains
rack-and-pinion
rack-and-pinion railroad
rack-and-pinion railway
rack-rent
rack-renter
rack-stick
racket court
racket press
racket wheel
racket-tail
rackets, the
racom-o-oxalic
radar antenna
radar application
radar astronomer
radar astronomy
radar beacon
radar beacon buoy
radar bombsight
radar controls
radar countermeasure
radar defenses
radar dome
radar engineer
radar fence
radar highway patrol
radar interference
radar marked beacon
radar nacelle
radar navigation
radar nose
radar operation
radar parts
radar picket plane
radar pulse
radar reflector
radar scanner
radar screen
radar signal
radar speed meter
radar station
radar technician
radar telescope
radar tracking station
radar trap
radar-telephone relay
radial engine
radial motion
radial saw
radial symmetry
radial tire
radial triangulation
radial tyre
radial velocity
radial-flow turbine
radial-ply
radiant efficiency
radiant emittance
radiant energy
radiant exitance
radiant flux
radiant heat
radiant heater
radiant heating
radiant intensity
radiant point
radiant splendor
radiant-heat brooder
radiate cheer
radiate heat
radiate-veined
radiation atom
radiation belt
radiation counter
radiation counters and chambers
radiation fog
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiato-
radio electronics
radio engineer
radio engineering
radio fare
radio field intensity
radio frequency
radio horizon
radio interference
radio interferometer
radio knife
radio link
radio links
radio listener
radio marker
radio mast
radio mirror
radio navigation
radio observatory
radio operator
radio play
radio program
radio proximity fuze
radio range
radio range beacon
radio range station
radio receiver
radio reception
radio relay station
radio room
radio set
radio shack
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio-
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rag fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rag-beating
rag-boiling
rag-bolt
rag-burn
rag-chew
rag-cutting
rag-fair
rag-made
rag-tag
rag-threshing
rag-time
rag-wheel
rage-crazed
rage-filled
rage-infuriate
rage-subduing
rage-swelling
rage-transported
ragged edge
ragged robin
ragged school
ragged staff
raggle block
raggle-taggle
raging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
railroad chair
railroad engineer
railroad engineering
railroad euchre
railroad flat
railroad furniture
railroad jack
railroad lantern
railroad line
railroad man
railroad pen
railroad radio
railroad scale
railroad sickness
railroad station
railroad telegraphy
railroad through
railroad train
railroad truck
railroad tunnel
railroad worm
railway car
railway express
railway guard
railway line
railway mail car
railway maker
railway making
railway man
railway spine
railway stitch
railway-borne
rain area
rain barrel
rain belt
rain bullfrogs
rain cats and dogs
rain chamber
rain check
rain cloud
rain course
rain dance
rain doctor
rain dogs and polecats
rain down
rain forest
rain gauge
rain glass
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower
rain spot
rain suit
rain tadpoles
rain tree
rain water
rain wind rose
rain-awakened
rain-bearing
rain-beat
rain-beaten
rain-bird
rain-bitten
rain-bleared
rain-blue
rain-bright
rain-damped
rain-drenched
rain-driven
rain-dropping
rain-fowl
rain-fraught
rain-god
rain-gutted
rain-scented
rain-soaked
rain-sodden
rain-soft
rain-streaked
rain-swept
rain-threatening
rain-washed
rain-water
rain-water fish
rainbow bird
rainbow cactus
rainbow chaser
rainbow chasing
rainbow cordial
rainbow darter
rainbow fish
rainbow herring
rainbow moss
rainbow parrotfish
rainbow perch
rainbow runner
rainbow seaperch
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise animals
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'etre
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rape butterfly
rape oil
rape wine
rapeseed oil
rapid eye movement
rapid fire
rapid glance
rapid recurrence
rapid slope
rapid succession
rapid transit
rapid-changing
rapid-fire
rapid-fire mount
rapid-firer
rapid-firing
rapid-flowing
rapid-flying
rapid-footed
rapid-mannered
rapid-passing
rapid-running
rapid-speaking
rapid-transit
rapier-like
rapier-proof
rapper-dandies
rapt attention
rapt away
rapt full
rapt in wonder
rapture-bound
rapture-breathing
rapture-bursting
rapture-giving
rapture-moving
rapture-ravished
rapture-rising
rapture-smitten
rapture-speaking
rapture-touched
rapture-trembling
rapture-wrought
rara avis
rare bird
rare book
rare earth
rare gas
rare good humor
rare metals
rare-bred
rare-earth element
rare-earth elements
rare-earth metal
rare-earth metals
rare-featured
rare-felt
rare-gifted
rare-painted
rare-qualified
rare-ripe
rare-seen
rare-shaped
raree show
raree-show
rarin’ to go
raring to
rascally knave
rash conviction
rash impulse
rash-brain
rash-brained
rash-conceived
rash-embraced
rash-headed
rash-hearted
rash-levied
rash-minded
rash-pledged
rat-faced
rat-gnawn
rat-infested
rat-inhabited
rat-kangaroo
rat-kangaroos
rat-killing
rat-lin
rat-ridden
rat-riddled
rat-skin
rat-stripper
rat-tail
rat-tail cactus
rat-tail file
rat-tail spoon
rat-tailed
rat-tailed maggot
rat-tat
rat-tat-tat
rat-tattle
rat-tight
rat-trap
ratable value
ratafia biscuit
ratatat-tat
ratbite disease
ratbite fever
ratchet brace
ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
rate action
rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
rate-aided
rate-cutting
rate-fixing
rate-of-climb indicator
rate-raising
rate-setting
rated load
rathe-ripe
rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ration out
rational animal
rational calorie
rational faculty
rational form
rational function
rational ground
rational horizon
rational mechanics
rational number
rational psychology
rational theology
rational treatment
rational-emotive therapy
ratline down
ratline stuff
rato unit
rattail cactus
rattail comb
rattail fescue
rattail file
rattan vine
rattle around
rattle barrel
rattle grass
rattle on
rattle the windows
rattle-bush
rattle-head
rattle-pate
rattle-top
rattlesnake bean
rattlesnake fern
rattlesnake flag
rattlesnake grass
rattlesnake leaf
rattlesnake master
rattlesnake plantain
rattlesnake root
rattlesnake weed
rattlesnake-bite
rattle-y-bang
rattling pace
rattrap pedal
raucous happiness
raus mit dir
ravage with fire and sword
ravaged with age
ravages of time
rave about
rave against
rave hook
rave-up
ravel bread
ravel out
raven black
raven cockatoo
raven gray
raven standard
raven-black
raven-colored
raven-feathered
raven-haired
raven-plumed
raven-toned
raven-torn
raven-tressed
ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
raw comedy
raw data
raw deal
raw fibers
raw glaze
raw material
raw milk
raw nerve
raw nerves
raw recruit
raw score
raw sienna
raw silk
raw umber
raw vegetables
raw weather
raw wind
raw, the
raw-bone
raw-boned
raw-colored
raw-devouring
raw-edged
raw-faced
raw-handed
raw-head
raw-headed
raw-looking
raw-mouthed
raw-nosed
raw-pack method
raw-ribbed
raw-striped
raw-wool
ray filter
ray floret
ray flower
ray fungus
ray grass
ray gun
ray of hope
ray of light
ray of sunshine
ray pod
ray therapy
ray-fringed
ray-gilt
ray-girt
ray-grass
ray-illumined
ray-lit
ray-strewn
rayless goldenrod
rayon casheen
rayon stockings
raze to the dust
raze to the ground
razee plane
razon bomb
razor blade
razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
razor-back
razor-backed
razor-bill
razor-billed
razor-billed auk
razor-bladed
razor-bowed
razor-cut
razor-edge
razor-edged
razor-fish
razor-grinder
razor-keen
razor-leaved
razor-shaped
razor-sharp
razor-sharpening
razor-shell
razor-tongued
razor-weaponed
razor-witted
razzle-dazzle
re-
re-act
re-ally
re-book
re-buff
re-cede
re-claim
re-co-operate
re-co-operation
re-cognition
re-cognional
re-coil
re-coil
re-coilre-collect
re-collect
re-collection
re-commend
re-cord
re-count
re-cover
re-create
re-created
re-creating
re-creation
re-creative
re-creator
re-derive
re-desert
re-do
re-dress
re-earn
re-ebullient
re-echo
re-edificate
re-edification
re-Edifier
re-edify
re-edit
re-educate
re-education
re-educative
re-effeminate
re-egg
re-ejaculate
re-eject
re-ejection
re-ejectment
re-elaborate
re-elaboration
re-elect
re-election
re-elevate
re-elevation
re-eligibility
re-eligible
re-eliminate
re-elimination
re-emanate
re-embark
re-embarkation
re-embarrass
re-embarrassment
re-embattle
re-embed
re-embellish
re-embodiment
re-embody
re-embosom
re-embrace
re-embracement
re-embroil
re-emerge
re-emergence
re-emergent
re-emersion
re-emigrant
re-emigrate
re-emigration
re-emission
re-emit
re-emphasis
re-emphasize
re-employ
re-employment
re-empower
re-empty
re-emulsify
re-enable
re-enact
re-enaction
re-enactment
re-enamel
re-enamor
re-enamour
re-enchain
re-enclose
re-enclosure
re-encounter
re-encourage
re-encouragement
re-endear
re-endearment
re-ender
re-endorse
re-endorsement
re-endow
re-endowment
re-energize
re-enfeoff
re-enfeoffment
re-enforce
re-enforcement
re-enforcer
re-enfranchise
re-enfranchisement
re-engage
re-engagement
re-engender
re-engenderer
re-engine
re-engraft
re-engage
re-engrave
re-engraving
re-engross
re-enhearten
re-enjoin
re-enjoy
re-enjoyment
re-enkindle
re-enlarge
re-enlargement
re-enlighten
re-enlightenment
re-enlist
re-enlister
re-enlistment
re-enliven
re-ennoble
re-enroll
re-enrollment
re-enshrine
re-enslave
re-enslavement
re-ensphere
re-enter
re-entering
re-entering angle
re-entertain
re-entertainment
re-enthral
re-enthrone
re-enthronement
re-enthronize
re-entice
re-entitle
re-entoil
re-excavate
re-excavation
re-excel
re-exchange
re-excitation
re-excite
re-exclude
re-exclusion
re-execute
re-exemption
re-exempt
re-exercise
re-exert
re-exertion
re-exhale
re-exhaust
re-exhibit
re-exhibition
re-exhilarate
re-exhilaration
re-exist
re-existence
re-existent
re-expand
re-expansion
re-expect
re-expectation
re-expedite
re-expedition
re-expel
re-experience
re-experiment
re-explain
re-explanation
re-export
re-exportation
re-exporter
re-expose
re-exposure
re-expound
re-express
re-expression
re-expulsion
re-extend
re-extension
re-extent
re-extract
re-extraction
re-form
re-formation
re-formative
re-former
re-fund
re-genesis
re-ice
re-ink
re-laid
re-lay
re-laying
re-lease
re-leased
re-leasing
re-mark
re-pose
re-posed
re-posing
re-present
re-presentation
re-presentment
re-press
re-proof
re-prove
re-proved
re-proven
re-proving
rereaction
re-rebel
re-receive
re-reception
re-recital
re-recite
re-reckon
re-recognition
re-recognize
re-recollect
re-recollection
re-recommend
re-recommendation
re-reconcile
re-reconciliation
re-record
re-recover
re-rectification
re-rectify
re-reduce
re-reduction
re-refer
re-refine
re-reflect
re-reflection
re-reform
re-reformation
re-refusal
re-refuse
re-regenerate
re-regeneration
re-rehearsal
re-rehearse
re-reiterate
re-reiteration
re-reject
re-rejection
re-rejoinder
re-relate
re-relation
re-release
re-relish
re-rely
re-remember
re-remind
re-remit
re-removal
re-remove
re-rendition
re-repair
re-repeat
re-repent
re-replevin
re-reply
re-report
re-represent
re-representation
re-reproach
re-request
re-require
re-requirement
re-rescue
re-resent
re-resentment
re-reservation
re-reserve
re-reside
re-residence
reach a better land
reach a better life
reach a better place
reach a better world
reach a compromise
reach a new low
reach a parting of the ways
reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
reach-me-down
reach-me-downs
reacher-in
reaching foresail
reaching high
reaching jib
reaching post
react chemically
reactance coil
reactance drop
reaction border
reaction engine
reaction formation
reaction locus
reaction machine
reaction motor
reaction propulsion
reaction rim
reaction ring
reaction time
reaction turbine
reaction wheel
reaction-proof
reactive current
reactive inflammation
reactive neurosis
reactive psychosis
reactor engine
reactor pile
read a lecture
read a lecture to
read a lesson
read a lesson to
read a sermon
read between the lines
read copy
read easily
read for
read in
read in view of
read into
read law
read out
read out of
read palms
read tea leaves
read the future
read the meter
read the riot act
read up
read up on
read with
read your hand
read your lines
read yourself in
read-write head
reader-off
readiness of feeling
readiness of speech
reading book
reading chair
reading desk
reading distance
reading glass
reading glasses
reading hook
reading in
reading lamp
reading man
reading matter
reading notice
reading pew
reading room
reading, writing, and arithmetic
reading-in machine
ready about
ready and willing
ready at hand
ready box
ready for
ready for anything
ready for bed
ready money
ready pen
ready reckoner
ready reply
ready retort
ready roofing
ready room
ready to
ready to believe
ready to burst
ready to burst forth
ready to cry
ready to drop
ready up
ready wit
ready yourself
ready yourself to
ready-armed
ready-beaten
ready-bent
ready-braced
ready-built
ready-coined
ready-cooked
ready-cut
ready-dressed
ready-for-wear
ready-formed
ready-furnished
ready-grown
ready-handed
realgar orange
realgar yellow
realistic comedy
realistic description
realistic representation
reality therapy
realize on
realize profit
really into
really something
really-truly
realm of light
realm-bounding
realm-conquering
realm-destroying
realm-governing
realm-peopling
realm-subduing
realm-sucking
realm-unpeopling
ream ass
ream out
reaming-out
reap and carry
reap gapeseed
reap profit
reap the benefit of
reap the fruits of
reap the whirlwind
reap where you have sown
reaper binder
reaper binder Obsolete
reaper file
reaper thresher
reaping hook
reaping machine
rear admiral
rear aloft
rear arch
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-
rear-admiral
rear-arch
rear-cut
rear-directed
rear-driven
rear-driving
rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
rearing bit
rearview mirror
reason about
reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebel clover
rebel yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalescence point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
receive Christ
receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
reciprocal pronoun
reciprocal trade
reciprocal transfusion
reciprocating engine
reciprocity failure
reciprocity law
recitation room
recitativi accompagnati
recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
recite the rosary
reciting note
reciting the rosary
reck- less
reckless expenditure
reckless person
reckless spending
reckon among
reckon in
reckon on
reckon up
reckon up to
reckon with
reckon without your host
reclaimed rubber
reclamation district
recline on
reclining chair
reclining lounge chair
recognition mark
recoil atom
recoil cylinder
recoil electron
recoil escapement
recoil wave
recoilless rifle
recommend itself
recommended price
reconcile yourself to
reconnaissance car
red flour beetle
red fox
red giant
red giant star
red grouse
red gum
red hand
red hands
red hat
red heat
red herring
red hind
red horse
red horse chestnut
red in the face
red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
red letter
red light
red line
red liquor
red maids
red man
red maple
red mass
red meat
red mercuric oxide
red mercuric sulfide
red mombin
red mulberry
red mullet
red oak
red ocher
red ochre
red orpiment
red osier
red packet
red pepper
red periwinkle
red pine
red-backed shrike
red-bait
red-baiting
red-banded
red-bar
red-barked
red-beaded
red-beaked
red-beamed
red-bearded
red-bellied
red-bellied turtle
red-belted
red-berried
red-billed
red-black
red-blind
red-blooded
red-bloodedness
red-bodied
red-boled
red-bonnet
red-bound
red-branched
red-branching
red-breasted
red-brick
red-brick university
red-brown
red-burning
red-buttoned
red-carpet
red-cheeked
red-chested
red-ciled
red-ciling
red-cilled
red-cilling
red-clad
red-clay
red-cloaked
red-clocked
red-coat
red-coated
red-cockaded
red-collared
red-colored
red-combed
red-complexioned
red-crested
red-crowned
red-curtained
red-dabbled
red-dog
red-dogged
red-dogger
red-dogging
red-dyed
red-eared
red-edged
red-eye
red-eyed
red-eyed vireo
red-faced
red-facedly
red-facedness
red-feathered
red-figure
red-figured
red-finned
red-flag
red-flag law
red-flagger
red-flaggery
red-flanked
red-flecked
red-fleshed
red-flowered
red-flowering
red-footed
red-fronted
red-fruitied
red-gemmed
red-gilled
red-girdled
red-gleaming
red-gold
red-gowned
red-gowned-red-green blind
red-green blind
red-green blindness
red-haired
red-hand
red-handed
red-handedly
red-handedness
red-hard
red-harden
red-hardness
red-hat
red-hatted
red-head
red-headed
red-headed woodpecker
red-heeled
red-herring prospectus
red-hipped
red-hissing
red-hooded
red-horned
red-hot
red-hot poker
red-hued
red-humped
red-ink
red-jerseyed
red-kneed
red-knobbed
red-lead
red-lead ore
red-lead putty
red-leader
red-leaf
red-leather
red-leaved
red-legged
red-legged partridge
red-legs
red-letter
red-lettered
red-lidded
red-light
red-light district
red-lined
red-lipped
red-listed
red-lit
red-litten
red-looking
red-making
red-minded
red-mouthed
red-naped
red-neck
red-necked
red-nosed
red-orange
red-out
red-painted
red-pencil
red-plowed
red-plumed
red-polled
red-purple
red-ribbed
red-rimmed
red-ripening
red-roan
red-roofed
red-rooted
red-rose
red-rumped
red-rusted
red-scaled
red-scarlet
red-shafted
red-shank
red-shirted
red-short
red-shortness
red-shouldered
red-shouldered hawk
red-sided
red-silk
red-skinned
red-snooded
red-specked
red-speckled
red-spotted
red-spotted purple
red-stalked
red-streak
red-streaked
red-streaming
red-swelling
red-tailed
red-tailed hawk
red-tape
red-taped
red-tapedom
red-tapeism
red-taper
red-tapery
red-tapey
red-tapish
red-tapism
red-tapist
red-tempered
red-thighed
red-throat
red-throated
red-tiled
red-tinted
red-tipped
red-tongued
red-top
red-topped
red-topped buffalo grass
red-trouserered
red-tufted
red-twigged
red-up
red-upholstered
red-veined
red-vented
red-vested
red-violet
red-walled
red-wat
red-water
red-wattled
red-waved
red-white
red-winged
red-winged blackbird
red-wooded
red-written
red-yellow
redback spider
redbelly dace
redbrick university
redd-up
reddish brown
reddish brown colors
reddish-amber
reddish-bay
reddish-bellied
reddish-black
reddish-blue
reduce to unity
reduce to writing
reduce weight
reduced circumstances
reduced hemoglobin
reduced in health
reduced level
reduced mass
reduced paid-up insurance
reduced price
reduced rates
reduced sail
reduced sight
reduced to a skeleton
reduced to dire straits
reduced to jelly
reduced to powder
reduced vowel
reducer sleeve
reducible algebra
reducing agent
reducing diet
reducing furnace
reducing glass
reducing press
reducing valve
reducing wheels
reductase test
reductio ad absurdum
reduction division
reduction formula
reduction of armaments
reduction of expenses
reduction of government spending
reduction of spending
reduction of temperature
reduction potential
reduction to ashes
reduction to dust
reduction to elements
reduction to parts
reduction to powder
reduction works
reduction-improbation
redundant check
redundant verb
redwing blackbird
reed basket
reefing bowsprit
reefing jacket
reek of piety
reel and bead
reel back
reel borer
reel foot
reel in
reel man
reel off
reel oven
reel-fed
reeled silk
reeling hammer
reeming beetle
reeming iron
reentering angle
reentering polygon
reeving-line bend
reactory table
refer to
reference book
reference editor
reference electrode
reference frame
reference gauge
reference group
reference librarian
reference library
reference mark
reference marks
reference peg
reference quantity
reference system
reference to
reference-voltage generator
referendum dollar
referred pain
referred to
referring to
refine a distinction
refine upon
refined discrimination
refined palate
refined sense of hearing
refined taste
refining engine
refining equipment
refining heat
refining place
reflect discredit upon
reflect honor on
reflect over
reflect upon
reflected light
reflected light meter
reflected plan
reflected signal
reflecting telescope
reflection density
reflection factor
reflection plane
reflector mirror
reflex act
reflex action
reflex angle
reflex arc
reflex camera
reflex epilepsy
reflex klystron
reflex zenith tube
reflexive pronoun
reflux condenser
reflux value
reform Jew
reform judaism
reform politician
reform politics
reform school
reform yourself
reformation-proof
reformed spelling
refracting telescope
refraction circle
refractive index
refractory brick
refractory clay
refractory ware
refrain from
refresh the inner man
refresh the memory
refresh the memory of
refresher course
refrigerating engine
refrigerating engineer
refrigerating engineering
refrigerating machine
refrigerating plant
refrigeration anesthesia
refrigeration ship
refrigerator car
refrigerator truck
refund annuity
refunding bond
refusal to be amazed
refusal to be awed
refusal to be impressed
refusal to believe
refuse comment
refuse consent
refuse credence to
refuse credit to
refuse destructor
refuse heap
refuse lac
refuse point-blank
refuse stays
refuse summarily
refuse to accept
refuse to acknowledge
refuse to admit
refuse to associate with
refuse to be impressed
refuse to believe
refuse to consider
refuse to cooperate
refuse to credit
refuse to pay
refuse to receive
refuse to recognize
refuse to shed blood
refuse work
refusing work
regal purple
regard before
regard studiously
regard with indulgence
regardless of
regardless of consequences
regardless of cost
regenerated cellulose
regenerative cooling
regenerative furnace
regenerative receiver
regenerative wave-meter
regent bird
regent house
regie-book
regimental tie
regional accent
regional dialect
regional enteritis
regional governor
regional novel
regional school
regions of
register a complaint
register breadth
register length
register of deaths
register of wills
register office
register point
register regulator
register thermometer
register ton
register tonnage
register with
registered Democrat
registered Republican
registered bond
registered breadth
registered certificate
registered depth
registered length
registered lobbyist
registered mail
registered nurse
registered post
registered representative
registered securities
registered trademark
registered voter
registering rocket
registrar-general
registration area
registration county
registration number
registry office
regius professor
regression coefficient
regression neurosis
regression therapy
regressive sorites
regressive tax
regressive taxation
regular army
regular as clockwork
regular bevel
regular buyer
regular canoness
regular customer
regular dividend
regular gas
regular lay
regular ode
regular old fogy
regular payments
regular play
regular solid
regular tertiaries
regular wave motion
regular year
regular-bred
regular-built
regular-featured
regular-growing
regular-lay rope
regular-shaped
regular-sized
regulate by
regulating box
regulating button
regulation-proof
regulative first principle
regulator gene
regulator pin
rehearse a play
rehearse in extenso
reheat the ashes
reheating furnace
rei persecutoria
rei-ntrant
reign of Saturn
reign of St
reign of terror
reigning beauty
reim-kennar
rein in
rein orchis
reindeer flower
reindeer lichen
reindeer moss
reindeer pest
reinforced bow
reinforced concrete
reins of government
reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller's market
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
relative by marriage
relative clause
relative complement
relative density
relative dispersion
relative electron affinity
relative frequency
relative heading
relative humidit
relative humidity
relative incidence
relative magnitude
relative major
relative majority
relative maximum
relative minimum
relative minor
relative molecular mass
relative permeability
relative permittivity
relative pitch
relative pronoun
relative to
relative topology
relative wind
relative-in-law
relatively prime numbers
relatives-in-law
relativistic quantum mechanics
relativity doublet
relativity shift
relax conditions
relax the condition
relax your grip
relax your hold
relaxation of tension
relay broadcast
relay fast
relay governor
relay hunger strike
relay links
relay race
relay receiver
relay register
relay station
relay stations
relay transmitters
relayer rail
release copy
release date
release therapy
released time
relegate to a place
relevant fact
relevant instance
reliability coefficient
reliance in
reliance on
relic area
relic of the past
relic-covered
relic-vending
relief etching
relief frame
relief map
relief method
relief motion
relief pallet
relief payments
relief pitcher
relief printing
relief ship
relief tube
relief valve
relief well
relief-carving
relieve the mind of
relieve you of
relieve your mind
relieve yourself
relieving arch
relieving tackle
religio-
religio-educational
religio-magical
religio-military
religio-philosophical
religio-political
religio-scientific
religions and sects
religious belief
religious believer
religious ceremony
religious discourse
religious education
religious faith
religious founder
religious house
religious humbug
religious hypocrite
religious leader
religious order
religious prophets
religious rites
religious school
religious truth
religious war
religious-minded
religious-mindedness
religiously exact
relinquish your life
relocation camp
reluctance amplifier
rely on
rely on fortune
rely upon
remain anonymous
remain at a distance
remain at peace
remain firm
remain in the shade
remain in your memory
remain incommunicado
remain motionless
remain neutral
remain on your hands
remain seated
remain stable
remain unmoved
remain valid
remainder theorem
remand home
remand school
remanent magnetism
remark upon
remarkably like
remarque proof
remedial measure
remedial of
remedy an injustice
remedy-proof
remembrance day
remind one of
remind you of
remission of sin
remit the penalty of
remittance man
remittent fever
remontoir escapement
remorse of conscience
remote age
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham’s bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
render lip service
render powerless
render recognition
render service to
render thanks
render up
rendering coat
rendering works
renew your strength
repeated figure
repeated sounds
repeating decimal
repeating firearm
repeating theodolite
repeating watch
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
representative realism
representative town meeting
representative-elect
representing in the mind
repress a smile
repress your desires
repro proof
reproach yourself
reproduce after your kind
reproduce in kind
reproducing element
reproduction cost
reproduction proof
reproductive cell
reproductive imagination
reproductive organs
reproving look
reptilian age
republic of letters
request note
request stop
request the presence of
requiem mass
requiem shark
requiescant in pace
requiescat in pace
require an answer
required visit
requisition form
rere-
rere-brace
rere-dorter
rere-supper
res adjudicata
res gestae
res ipsa loquitur
res judicata
res publica
resale price maintenance
rescue device
rescue grass
rescue helicopter
rescue mission
rescue plane
research and development
research center
research engineer
research engineering
research establishment
research facility
research installation
research laboratory
research library
research material
research monograph
research paper
research plane
research professor
research rocket
research satellite
research station
research study
research worker
reserve account
reserve bank
reserve buoyancy
reserve city
reserve currency
reserve forces
reserve fund
reserve militia
reserve officer
reserve price
reserve ratio
reserve ration
reserve supply
reserve yourself
reserved list
reserved occupation
reserved power
reset action
reside in
resident commissioner
resident maid
resident physician
residential district
residual clay
residual magnetism
residual power
residual stress
residuary devisee
residuary legatee
resign from
resign your being
resign your life
resign yourself
resign yourself to
resignation bond
resigned-looking
resin alcohol
resin bee
resin canal
resin cerate
resin distiller
resin gnat
resin jack
resin oil
resin opal
resin plant
resin plastic
resin soap
resin spirit
resino-
resist believing
resist entreaty
resist persuasion
resist printing
resistance box
resistance butt welding
resistance capacitance
resistance coil
resistance coupling
resistance derivative
resistance drop
resistance fighter
resistance fighting
resistance frame
resistance furnace
resistance pyrometer
resistance thermometer
resistance to belief
resistance to change
resistance welding
resisting medium
resisting moment
resistive conductor
resistive coupling
resistiveness to belief
resojet engine
resojet propulsion
resolutory condition
resolve into
resolve itself into
resolve to
resolved upon
resolving power
resonace box
resonace potential
resonace cavity
resonace curve
resonace duct jet engine
resonace energy
resonace form
resonance frequency
resonance frequency control
resonance hybrid
resonance indicator
resonance jet engine
resonance neutron
resonance pipe
resonance radiation
resonance spectrum
resonance wave coil
resonance-coil antenna
resonant cavity
resonant chamber
resonant frequency
resonant-jet engine
resorcin acetate
resorcin brown
resorcin dark brown
resorcinol monoacetate
resorption border
resort to
resort to arms
resound in the ears
resound the praises of
resounding triumph
respect your duty
respectable citizen
respeian composer
respiration calorimeter
respirato-
respiratory center
respiratory disease
respiratory leaf
respiratory nerve
respiratory pigment
respiratory plate
respiratory quotient
respiratory system
respiratory tree
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsary report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrection-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retail seller
retail store
retain in the thoughts
retain the memory of
retained earnings
retained income
retained object
retained objective complement
retaining fee
retaining wall
retardation method
retentive memory
retentive mind
retia mirabilia
reticular system
reticulate python
reticulated tracery
reticulated vessel
reticulato-
reticulo-
reticuloendothelial system
reticulum cell
reticulum cell sarcoma
retin-
retinal rod
retinitis pigmentosa
retino-
retire from office
retire from sight
retire from the world
retire into the shade
retire into your shell
retired list
retired professor
retirement benefits
retirement from office
retirement income insurance
retiring disposition
retold story
retonation wave
retort an accusation
retort drawer
retort stand
retrace your steps
retractable landing gear
retreaded tire
retreat into your mind
retreat into your shell
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverbatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reversed feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
reversing switch
reversing thermometer
reversion duty
reversion pendulum
reversion spectroscope
reversionary annuity
revert to
review copy
review in retrospect
review of things past
revise your thoughts
revised edition
revised standard version
revised version
revival meeting
revolt at
revolting with
revolting with endured
revolution control
revolutionary calendar
revolutionary junta
revolutionary war
revolutions per minute
revolve in the mind
revolve on
revolve upon
revolving bookcase
revolving bookstand
revolving credit
revolving door
revolving fund
revolving lever
revolving on
revolving stage
revolving-jaw box chuck
revolving-jaw chuck
rewa-rewa
reward claim
reworked wool
rewrite man
rewrite rule
rex begonia
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhombo-
rhomboid-ovate
rhubarb wine
rhumb line
rhumbline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
rhyolite-porphyry
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
rhythmic accent
rhythmical accentuation
rhythmical stress
rib cage
rib cut
rib grass
rib lath
rib meristem
rib riffling
rib roast
rib steak
rib stitch
rib tickler
rib-bearing
rib-breaking
rib-faced
rib-grass
rib-grated
rib-mauled
rib-nosed
rib-pointed
rib-poking
rib-roast
rib-sticking
rib-striped
rib-supported
rib-welted
riband-shaped
riband-wreathed
riband carvel
ribband lines
ribbed and smoked sheet
ribbed toad
ribble-rabble
ribbon brake
ribbon building
ribbon bush
ribbon candy
ribbon conveyer
ribbon copy
ribbon development
ribbon fern
ribbon grass
ribbon gum
ribbon isinglass
ribbon jasper
ribbon lightning
ribbon maker
ribbon microphone
ribbon movement
ribbon of light
ribbon park
ribbon rock
ribbon saw
ribbon snake
ribbon strip
ribbon tree
ribbon winder
ribbon wire
ribbon worm
ribbon-bedizened
ribbon-bordering
ribbon-bounded
ribbon-fish
ribbon-grass
ribbon-marked
ribbon-shaped
ribonucleic acid
ribose nucleic acid
ribosomal RNA
rice body
rice boiler
rice bowl
rice bran
rice bug
rice christian
rice cleaner
rice coal
rice cousin
rice cut-grass
rice drier
rice dust
rice eater
rice field
rice flour
rice flower
rice glue
rice grader
rice grass
rice grinder
rice grower
rice hen
rice huller
rice milk
rice mill
rice miller
rice mouse
rice paddy
rice paper
rice planter
rice polish
rice polisher
rice polishings
rice powder
rice rat
rice shell
rice tenrec
rice water
rice weevil
rice wine
rice-bird
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-appareled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeched
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robbed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
richel bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
rictal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
rider embolus
rider keelson
ridge beam
ridge buster
ridge fillet
ridge harrow
ridge oak
ridge plow
ridge rib
ridge rope
ridge runner
ridge stone
ridge strut
ridge tile
ridge-bone
ridge-seeded
ridge-tile
ridging grass
ridging plow
ridicule-proof
ridiculously like
riding academy
riding at anchor
riding boot
riding boots
riding breeches
riding crop
riding habit
riding hood
riding horse
riding lamp
riding light
riding master
riding on cloud nine
riding pants
riding rhyme
riding saddle
riding sail
riding school
riding-coat
riding-habit
riding-hood
rie grass
riemannian geometry
rien du tout
rien ne va plus
riff through
riff-raff
rifle bar
rifle block
rifle file
rifle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
rifty-tufty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right side of the tracks
right side of, the
right smart
right smart spell
right sort
right stage
right standard rudder
right taste
right ten degrees rudder
right-handed
right-lined
right-made
right-meaning
right-minded
right-mindedly
right-mindedness
right-of-way
right-of-way signal
right-oh
right-onward
right-principled
right-running
right-shaped
right-shapen
right-side
right-sided
right-sidedly
right-sidedness
right-thinking
right-to-work law
right-turn
right-up
right-walking
right-wheel
right-wing
right-winger
right-wingish
right-wingism
rightabout-face
righteous indignation
righteous, the
righteye flounder
rightful authority
rightful succession
righting lever
righting moment
rights issue
rights of man
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
rime riche
rime suffisante
rime-covered
rime-damp
rime-frost
rime-frosted
rime-laden
rimes riches
rimes suffisantes
riming stool
rince pichon
rind disease
rind fungus
rind gall
rind grafting
ring a bell
ring armature
ring armor
ring around the moon
ring around the sun
ring back
ring bander
ring binder
ring bore
ring bottle
ring canal
ring cell
ring changes
ring chuck
ring circuit
ring clew
ring compound
ring crib
ring dial
ring dollar
ring doorbells
ring down the curtain
ring down the curtain on
ring dropper
ring dropping
ring false
ring fence
ring finger
ring formation
ring formula
ring frame
ring gage
ring gauge
ring gear
ring in
ring in the ear
ring in the ears
ring machine
ring main
ring man
ring micrometer
ring nebula
ring necrosis
ring of the nibelung
ring off
ring oiler
ring on the air
ring out
ring ouzel
ring peals
ring pin
ring road
ring rope
ring rot
ring screw
ring seizing
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praises of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
ring-billed duck
ring-billed gull
ring-bone
ring-bored
ring-bound
ring-chain isomerism
ring-chain tautomerism
ring-dove
ring-dyke
ring-eyed
ring-fence
ring-finger
ring-formed
ring-handled
ring-in
ring-legged
ring-man
ring-neck
ring-necked
ring-necked duck
ring-necked pheasant
ring-off
ring-oil
ring-porous
ring-ridden
ring-shaped
ring-shout
ring-small
ring-spinning frame
ring-straked
ring-streaked
ring-tailed
ring-tailed cat
ring-up
ringed about
ringed plain
ringed plover
ringed snake
ringing spindrift
ringing tone
ringside seat
ringtail topsail
ringworm bush
rink polo
rinka fadda
rinse out
riot act
riot away
riot gun
riot in
riot of color
riot of colors
riot police
riot squad
riotous living
rip apart
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-checkered
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
ripen into
riper years
ripper act
ripping bar
ripping chisel
ripping iron
ripping out
ripping panel
ripping punch
ripping size
ripple cloth
ripple current
ripple effect
ripple grass
ripple mark
ripple of applause
ripple of laughter
ripple plantain
ripple voltage
ripple weld
ripple-grass
rippling kame
ris de veau
rise above
rise again
rise against
rise and fall
rise and shine
rise from
rise from the grave
rise in the mind
rise in the world
rise of bottom
rise of floor
rise of the tide
rise on in the world
rise on the hind legs
rise to
rise to a point of order
rise to mind
rise to the fly
rise to the occasion
rise up
rise up in arms
risen from the ranks
rising action
rising diphthong
rising floor
rising generation
rising ground
rising hinge
rising line
rising market
rising of the curtain
rising prices
rising rhythm
rising terminal
rising trot
rising vote
risk assuming
risk capital
risk premium
risk stating
risk your life
risus sardonicus
rite de passage
rite of confession
rite of intensification
rite of passage
ritual contamination
ritual impurity
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleanness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritz it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
river deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanched
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
rivet pitch
rivet set
rivet snap
rivet steel
rivet the eyes upon
rivet the mind on
rivet the thoughts on
rivet weld
rivet wheat
rivet your attention
riveting hammer
riveting knob
riveting stake
riving knife
riving machine
rix-dollar
rk-up
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
roasting ear
roasting hot
roasting jack
rob Peter to pay Paul
rob roy
rob the cradle
rob you of ease
rob you of rest
rob you of sleep
rob you of your illusions
robbed of
robbed of illusion
robber bee
robber crab
robber fly
robber frog
robbers’ roost
robbery insurance
robe de chambre
robe of royalty
robe of state
robe-de-chambre
robes-de-chambre
robin accentor
robin chat
robin dipper
robin goodfellow
robin hood
robin redbreast
robin runaway
robin sandpiper
robin snipe
robin's-egg blue
robing room
robinson crusoe
robot bomb
robot control
robot factory
robot pilot
robot plane
robot satellite
robot specialist
robot submarine
robot system
robot-control
robust health
roche alum
roche lime
roche moutonn
roche moutonnee
rochelle powders
rochelle salt
roching cask
rock 'n' roll
rock alyssum
rock and roll
rock and rye
rock barnacle
rock basin
rock bass
rock beauty
rock blenny
rock bottom
rock brake
rock breaker
rock burst
rock cake
rock candy
rock climber
rock cod
rock cornish
rock crab
rock cress
rock crusher
rock crystal
rock cycle
rock dove
rock drill
rock driller
rock eel
rock elm
rock face
rock fern
rock festival
rock flint
rock flour
rock flower
rock garden
rock gardener
rock gardening
rock glacier
rock goat
rock goldenrod
rock grouse
rock gunnel
rock gypsum
rock hind
rock hole
rock hopper
rock hopping
rock hound
rock hyrax
rock jasmine
rock lever
rock lily
rock lobster
rock maple
rock melon
rock milk
rock moss
rock music
rock oak
rock oil
rock oyster
rock painting
rock phosphate
rock pigeon
rock pile
rock plant
rock pressure
rock rabbit
rock salmon
rock salt
rock samphire
rock saw
rock saxifrage
rock seal
rock shelter
rock singer
rock snake
rock sparrow
rock spleenwort
rock spray
rock squirrel
rock the boat
rock the sky
rock thrush
rock to sleep
rock tripe
rock trout
rock violet
rock vole
rock wallaby
rock whiting
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-climb
rock-climber
rock-climbing
rock-concealed
rock-covered
rock-crested
rock-crushing
rock-cut
rock-drilling
rock-dusted
rock-dwelling
rock-eel
rock-embosomed
rock-encircled
rock-encumbered
rock-enthroned
rock-faced
rock-fallen
rock-fast
rock-fill
rock-fill dam
rock-firm
rock-firmed
rock-fish
rock-forming
rock-free
rock-frequenting
rock-girded
rock-girt
rock-hard
rock-hewn
rock-inhabiting
rock-loving
rock-melting
rock-piercing
rock-pigeon
rock-piled
rock-plant
rock-pulverizing
rock-razing
rock-reared
rock-ribbed
rock-roofed
rock-rooted
rock-rose
rock-rushing
rock-salt
rock-scarped
rock-shaft
rock-sheltered
rock-steady
rock-strewn
rock-studded
rock-throned
rock-thwarted
rock-torn
rock-weed
rock-wombed
rock-work
rock-worked
rock-bound coast
rocker arm
rocker bent
rocker cam
rocker panel
rocket airplane
rocket and missile names
rocket apparatus
rocket assist
rocket boat
rocket bomb
rocket car
rocket engine
rocket engineer
rocket engineering
rocket exhaust
rocket fire
rocket firing
rocket fuel
rocket glider
rocket gun
rocket harpoon
rocket laboratory
rocket larkspur
rocket launcher
rocket launching
rocket man
rocket motor
rocket pilot
rocket plane
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
rode goose
rodent operative
rodent ulcer
roe deer
roe-deer
roebuck berry
roentgen equivalent man
roentgen ray
roentgen ray therapy
roentgen-ray cancer
roentgeno-
rogation day
roger de coverley
rogue elephant
rogue's badge
rogue's march
rogue's yarn
rogues' gallery
rohr flute
roister-doister
roister-doisterly
role-player
role-playing
roll about
roll and fillet molding
roll around
roll back
roll call
roll cloud
roll film
roll flat
roll in
roll in the dust
roll in the lap of luxury
roll in wealth
roll into one
roll lathe
roll logs
roll of coins
roll of honour
roll of the dead
roll of the wheel
roll on
roll on the ground
roll on the tongue
roll out
roll over
roll over and play dead
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-top
rolling barrage
rolling bunt
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitches
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-poliness
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
romance-empurpled
romance-hallowed
romance-inspiring
romance-making
romance-writing
romano-
romantic bond
romantic comedy
romantic melancholy
romantic tie
romantic tragedy
romantico-heroic
romantico-robustious
rome-penny
rome-scot
romp home
romp through
rond de jambe
rondeau redouble
rondo form
ronds de jambe
rood altar
rood arch
rood beam
rood cloth
rood goose
rood ladder
rood loft
rood screen
rood spire
rood stair
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
root hair
root in
root knot
root mean square
root nodule
root of all evil
root on
root out
root parasite
root position
root pressure
root rot
root sheath
root test
root tip
root up
root vole
root weevil
root-bound
root-bruising
root-built
root-devouring
root-digging
root-eating
root-feeding
root-hardy
root-inwoven
root-mean-square
root-neck
root-parasitic
root-parasitism
root-prune
root-pruned
root-stock
root-torn
rooted belief
rooting out
rope belting
rope brake
rope bridge
rope brown
rope dancer
rope enough to hang yourself
rope greaser
rope house
rope in
rope ladder
rope machine
rope maker
rope molding
rope of sand
rope off
rope race
rope railway
rope shoes
rope socket
rope spinner
rope stitch
rope twine
rope yarn
rope's end
rope-band
rope-bound
rope-closing
rope-dancer
rope-driven
rope-driving
rope-end
rope-fastened
rope-girt
rope-laying
rope-muscled
rope-pulling
rope-reeved
rope-shod
rope-sight
rope-spinning
rope-stock
rope-strooped
rope-work
rope-yarn
rope-yarn knot
roped off
roping horse
roping palm
ropy lava
rory-cum-tory
rory-tory
ros solis
rosa solis
rosa solises
rosary pea
rosary plant
rosary ring
rosary shell
rose acacia
rose aphid
rose apple
rose beetle
rose beige
rose bengale
rose blush
rose box
rose campion
rose carnation
rose chafer
rose champagne
rose chestnut
rose cold
rose comb
rose cross
rose cut
rose cutter
rose d’Anvers
rose daphne
rose diamond
rose drill
rose engine
rose fever
rose fever n
rose geranium
rose gray
rose lily
rose madder
rose mallow
rose metal
rose mildew
rose milkweed
rose moss
rose noble
rose of China
rose of Heaven
rose of Jericho
rose of Sharon
rose of jericho
rose of sharon
rose oil
rose opal
rose pink
rose point
rose purple
rose quartz
rose rial
rose slug
rose stitch
rose tickseed
rose water
rose weevil
rose willow
rose window
rose wine
rose worm
rose-a-ruby
rose-apple
rose-back
rose-bay
rose-bellied
rose-blue
rose-breasted
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-cheeked
rose-clad
rose-color
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-headed
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-ringled
rose-root
rose-scented
rose-shell reamer
rose-slug
rose-sweet
rose-tinged
rose-tinted
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
roseo-
rosetta stone
rosetta wood
rosetta-wood
rosette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-cheeked
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger’d morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rotating prism
rotating spit
rotation axis
rotation band
rotation of axes
rotation pool
rotation-inversion axis
rotational motion
rote learning
rote memory
rote song
rother nail
roto section
rotogravure press
rotor cloud
rotor motor
rotor plane
rotor ship
rott goose
rotten at
rotten at the core
rotten borough
rotten break
rotten egg
rotten humor
rotten ice
rotten luck
rotten row
rotten smell
rotten stop
rotten to the core
rotten-dry
rotten-egg
rotten-hearted
rotten-heartedly
rotten-heartedness
rotten-minded
rotten-planked
rotten-red
rotten-rich
rotten-ripe
rotten-stone
rotten-throated
rotten-timbered
rotundi-
rotundo-
rotundo-ovate
rouge et noir
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
rough it
rough leaf
rough loader
rough log
rough measure
rough out
rough outline
rough passage
rough puff pastry
rough sea
rough sketch
rough spot
rough stuff
rough surface
rough trade
rough turner
rough up
rough usage
rough water
rough weather
rough wine
rough woodbine
rough-and-readiness
rough-and-ready
rough-and-tumble
rough-backed
rough-barked
rough-bearded
rough-bedded
rough-billed
rough-blustering
rough-board
rough-bordered
rough-cast
rough-cheeked
rough-clad
rough-clanking
rough-coat
rough-coated
rough-cut
rough-draw
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruited
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-haired
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbed
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-legged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plain
rough-plane
rough-plastered
rough-plow
rough-plumed
rough-podded
rough-point
rough-ream
rough-reddened
rough-rider
rough-ridged
rough-roll
rough-sawn
rough-scaled
rough-seeded
rough-shape
rough-sketch
rough-skinned
rough-spirited
rough-spoken
rough-square
rough-stalked
rough-stemmed
rough-stone
rough-stringed
rough-surfaced
rough-swelling
rough-tailed
rough-tanned
rough-tasted
rough-textured
rough-thicketed
rough-toned
rough-tongued
rough-toothed
rough-tree
rough-tree rail
rough-turn
rough-turned
rough-voiced
rough-walled
rough-weather
rough-winged
rough-winged swallow
rough-write
rougher-down
rougher-out
rougher-up
roughing mill
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round dancing
round down
round hand
round heart
round herring
round in
round kumquat
round lot
round number
round of applause
round of beef
round of drinks
round of pleasure
round of pleasures
round of visits
round off
round on
round out
round pace
round robin
round scale
round seizing
round shot
round steak
round sum
round table
round the bend
round the clock
round to
round top
round tower
round trade
round transaction
round trip
round turn
round turn and half hitch
round turn in the hawse
round up
round whitefish
round window
round-about-face
round-arch
round-arched  
round-arm  
round-arm blow  
round-armed  
round-backed  
round-barreled  
round-bellied  
round-beset  
round-billed  
round-blazing  
round-bodied  
round-boned  
round-bottomed  
round-bowed  
round-bowled  
round-built  
round-cell sarcoma  
round-celled  
round-cornered  
round-crested  
round-dancer  
round-eared  
round-edge  
round-edged  
round-end  
round-eyed  
round-faced  
round-fenced  
round-footed  
round-fruited  
round-furrowed  
round-hand  
round-handed  
round-headed  
round-heart  
round-hoofed  
round-horned  
round-house  
round-leafed  
round-leaved  
round-leaved dogwood  
round-limbed  
round-lipped  
round-lobed  
round-made  
round-mouthed  
round-nosed  
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-ovovate
roundish-oval
roundish-ovate
roundish-shaped
roundnose chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
route marker
route nationale
route order
route step
route survey
router patch
router plane
routing plane
rove beetle
rove iron
rove punch
rove-beetle
rove-over
rover ball
roving commission
roving iron
row away
row crop
row culture
row dry
row galley
row house
row of buttons
row of pins
row over
row vector
row-barge
row-boat
row-de-dow
row-dow-dow
row-off
row-port
rowan tree
rowan-tree
rowdy-dowdy
rowed of all
rowing boat
rowing crew
rowing machine
rowing port
rowlock arch
royal Canadian
royal antler
royal assent
royal authority
royal blue
royal coachman
royal colony
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
royal mast
royal oak
royal palm
royal pendulum
royal personage
royal pink
royal poinciana
royal prerogative
royal purple
royal quarto
royal red
royal road
royal seat
royal stag
royal standard
royal tennis
royal warrant
royal water lily
royal-born
royal-chartered
royal-hearted
royal-rich
royal-souled
royal-spirited
royal-towered
royston crow
ruat caelum
rub against
rub against the grain
rub along
rub away
rub down
rub elbows with
rub in
rub iron
rub it in
rub noses
rub off
rub off corners
rub on
rub out
rub salt in the wound
rub the lamp
rub the picture off a nickel
rub the print off a dollar bill
rub the right way
rub the ring
rub the wrong way
rub up
rub your eyes
rub your hands
rub-a-dub
rub-dub
rubaiyat stanza
rubarth's disease
rubber ball
rubber band
rubber bandage
rubber cement
rubber check
rubber cheque
rubber cloth
rubber dinghy
rubber gloves
rubber goods
rubber hydrocarbon
rubber knife
rubber latex
rubber mallet
rubber oil
rubber plant
rubber plate
rubber shoes
rubber snake
rubber spreader
rubber stamp
rubber tissue
rubber tree
rubber varnisher
rubber vine
rubber-base paint
rubber-block print
rubber-coated
rubber-collecting
rubber-cored
rubber-covered
rubber-cutting
rubber-down
rubber-faced
rubber-growing
rubber-headed
rubber-lined
rubber-mixing
rubber-off
rubber-producing
rubber-proofed
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spokenrude-spun
rude-spun
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruffy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-brown
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rufous-toed
rufous-vented
rufous-winged
rufous-yellow
rufter hood
rufter-hood
rufty-tufty
rug designer
rug gown
rug maker
rug-cutter
rug-cutting
rug-gowned
rugby league
rugby union
rugged health
rugged individualism
rugged individualist
rugosa rose
rugose-leaved
rugose-punctate
ruhmkorff coil
ruin agate
ruin marble
ruin-breathing
ruin-crowned
ruin-heaped
ruin-hurled
ruin-loving
rule against
rule by terror
rule joint
rule nisi
rule of action
rule of conduct
rule of deduction
rule of eleven
rule of might
rule of nature
rule of the road
rule of the sword
rule of three
rule of thumb
rule off
rule out
rule over
rule the roost
rule with a rod of iron
rule with an iron fist
rule with an iron hand
rule-joint
rulebook slowdown
ruled out
ruled surface
ruled-out
ruler of th' inverted year
ruler-straight
rules committee
rules of conduct
rules of language
rules of war
ruling circle
ruling circles
ruling class
ruling classes
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about
run-around
run-down
run-down neighborhood
run-in
run-of-mill
run-of-mine
run-of-paper
run-of-the-mill
running gaff
running gate
running gear
running hand
running head
running high jump
running in
running in the blood
running in the race
running in the strain
running jump
running knot
running light
running livestock
running mad
running martingale
running mate
running myrtle
running noose
running out of time
running over
running pine
running rhythm
running rigging
running sore
running start
running stitch
running story
running text
running title
running track
running water
running wild
running-birch
running-down clause
running-out fire
running-out of the sands
runo-
runoff election
runoff primary
runway light
runway lights
rupert's drop
rupture yourself
ruptured duck
rural dean
rural deanery
rural delivery
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
rust-preventing
rust-proofed
rust-red
rust-removing
rust-resisting
rust-stained
rust-worn
rust-yellow
rustic region
rustic style
rustic work
rustle up
rusts smuts
rusty black
rusty blackbird
rusty dab
rusty gum
rusty-branched
rusty-brown
rusty-coated
rusty-collared
rusty-colored
rusty-crowned
rusty-dusty
rusty-fusty
rusty-leaved
rusty-looking
rusty-red
rusty-rested
rusty-spotted
rusty-throated
ruthenium oxide
ruthenium red
rutherford atom
rye bread
rye grass
rye rust
rye smut
rye whiskey
rye whisky
rye-bread
rye-brome
rye-grass
s ap
s os
s t
s'il vous pla
s'il vous plait
sa sa
sab-cat
sabai grass
sabbath school
sabbath-day
sabbatical leave
sabbatical year
saber bean
saber fish
saber knot
saber rattling
saber shin
saber-legged
saber-rattling
saber-shaped
saber-toothed
saber-toothed cat
saber-toothed tiger
sabie wood
sable antelope
sable iron
sable night
sable-bordered
sable-cinctured
sable-cloaked
sable-colored
sable-hooded
sable-lettered
sable-robed
sable-spotted
sable-stoled
sable-suited
sable-vested
sable-vested Night
sable-visaged
sabre-toothed tiger
sac de nuit
sac fungus
sac-a-lait
sac-wrist
sacchar-
saccharic acid
saccharifying enzyme
saccharin insoluble
saccharin sodium
saccharine sorghum
saccharo-
saccharolactic acid
sacer vates
sachet powder
sack baler
sack baling
sack beater
sack borer
sack carrier
sack checker
sack cleaner
sack cloud
sack coal
sack coat
sack collector
sack cutter
sack doubler
sack dress
sack duty
sack elevator
sack emptier
sack examiner
sack hand
sack hoist
sack holder
sack lifter
sack machinist
sack maker
sack mender
sack moth
sack out
sack packer
sack printer
sack race
sack racer
sack racing
sack repairer
sack running
sack searcher
sack sewer
sack shaker
sack shoot
sack sorter
sack store
sack suit
sack superintendent
sack tackle
sack the
sack time
sack tree
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sacr-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
sad cake
sad case
sad disappointment
sad of heart
sad person
sad sack
sad sack of shit
sad times
sad tree
sad work
sad-a-vised
sad-colored
sad-eyed
sad-faced
sad-iron
sad-looking
sad-natured
sad-paced
sad-seeming
sad-tuned
sad-voiced
saddle band
saddle bar
saddle blanket
saddle block
saddle boiler
saddle bracket
saddle carpenter
saddle case
saddle chimes
saddle clip
saddle crutch
saddle currier
saddle cutter
saddle feathers
saddle fitter
saddle flange
saddle flap
saddle fungus
saddle gall
saddle girth
saddle glacier
saddle grafting
saddle gun
saddle hackle
saddle hand
saddle hip
saddle horn
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle ox
saddle oxford
saddle oyster
saddle pad
saddle pile
saddle piling
saddle pin
saddle pistol
saddle plant
saddle plate
saddle pocket
saddle point
saddle pommel
saddle press
saddle rack
saddle reef
saddle rock
saddle roof
saddle room
saddle rug
saddle seam
saddle seamer
saddle seat
saddle shell
saddle shoe
saddle skirt
saddle soap
saddle sore
saddle spot
saddle spring
saddle staple
saddle stirrup
saddle stitch
saddle stitcher
saddle stitching
saddle stone
saddle strap
saddle tank
saddle trunk
saddle upon
saddle wire stitch
saddle wiring
saddle with
saddle withers
saddle worker
saddle-backed
saddle-bag
saddle-billed
saddle-bow
saddle-check chair
saddle-cloth
saddle-fast
saddle-galled
saddle-girt
saddle-graft
saddle-nosed
saddle-shaped
saddle-sore
saddle-spotted
saddle-stitch
saddle-tree
saddle-wired
saddleback roof
saddleback stitch
sadist torturer
sadistic cruelty
saeva indignatio
safari ant
safari jacket
safari park
safari suit
safe and sound
safe builder
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-breaker
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
safflower red
saffron cake
saffron cordial
saffron crocus
saffron gatherer
saffron kiln
saffron oil
saffron plum
saffron robe
saffron thistle
saffron veil
saffron yellow
saffron-colored
saffron-hued
saffron-yellow
safrano pink
sag rod
sag to leeward
saga novel
sage Derby
sage ale
sage apple
sage brush green
sage cheese
sage chippy
sage cock
sage green
sage grouse
sage hare
sage hen
sage mullein
sage oil
sage rabbit
sage sparrow
sage tea
sage thrasher
sage tree
sage willow
sage wine
sage wormwood
sage-colored
sage-covered
sage-leaf
sage-leaf mullein
sage-leaved
sagging in folds
sagging market
sagittal suture
sago fern
sago flour
sago grass
sago palm
sago plant
sago spleen
sago tree
sahuca bean
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the windsail with the wind aft
sail with the wind quartering
sail yard
sail-bearing
sail-borne
sail-broad
sail-carrying
sail-dotted
sail-filling
sail-over
sail-propelled
sail-stretched
sail-winged
sailfin sculpin
sailing aid
sailing auxiliary
sailing barge
sailing boat
sailing canoe
sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
sailing ship
sailing sucker
sailing trawler
sailing trim
sailing vessel
sailing vessels
sailing yacht
sailmaker's needle
sailmaker's palm
sailor blue
sailor boy
sailor cap
sailor fish
sailor gang
sailor hat
sailor helmsman
sailor laborer
sailor lad
sailor phrase
sailor plant
sailor suit
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrews's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal armoniac
sal soda
sal tartari
sal tree
sal volatile
sal-ammoniac
sal-prunella
salaam aleikum
salad bowl
salad burnet
salad course
salad days
salad dish
salad dressing
salad fork
salad herb
salad nicoise
salad oil
salad plate
salad rocket
salad server
salad spoon
salad tree
salai tree
salamander stove
salaried worker
salary deduction
salary savings insurance
sale and leaseback
sale at auction
sale block
sale by auction
sale note
sale price
sale to the highest bidder
sale-over
saleratus weed
sales account
sales agency
sales agent
sales book
sales campaign
sales check
sales engineer
sales floor
sales force
sales journal
sales ledger
sales manager
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
salle d'attente
salle de danse
salleee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt firman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh terrapin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
saltpeter paper
saltpeter rot
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam-sodden
samadera bark
same but different
same here
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sized
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sample room
sample space
sample tester
sample trunk
sample vial
sampling inspection
sampling shovel
samson post
samson's post
san benito
san jacinto day
san jose scale
san-gaku
sancho panza
sancho pedro
sancte bell
sanctimonious fraud
sanction mark
sanctioned behavior
sanctioned conduct
sanctuary knocker
sanctuary ring
sanctum sanctorum
sanctus bell
sanctus turret
sand anchor
sand badger
sand bar
sand bath
sand bear
sand bellows
sand belt
sand binder
sand bird
sand blackberry
sand blaster
sand blindness
sand block
sand blower
sand bluestem
sand boil
sand brier
sand buffer
sand bug
sand bunker
sand burner
sand calciner
sand car
sand caster
sand casting
sand castle
sand cherry
sand chute
sand clam
sand clock
sand cloth
sand clover
sand cock
sand collar
sand column
sand cone
sand conveyor
sand corn
sand crab
sand crack
sand crater
sand cricket
sand cusk
sand dab
sand darter
sand digger
sand disease
sand diver
sand dollar
sand dredge
sand dropseed
sand drown
sand dune
sand eel
sand finish
sand flag
sand flask
sand flat
sand flea
sand flotation
sand flounder
sand fluke
sand fly
sand fox
sand gall
sand grape
sand grass
sand grouse
sand hill
sand hog
sand hoist
sand hole
sand hopper
sand hornet
sand in the eyes
sand jack
sand jet
sand lance
sand lark
sand launce
sand leek
sand lily
sand line
sand lizard
sand lob
sand lotter
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sand wasp
sand whiting
sand widgeon
sand yacht
sand-bag
sand-bar willow
sand-belt machine
sand-blight
sand-blind
sand-blindness
sand-blown
sand-bottomed
sand-box
sand-built
sand-buried
sand-burned
sand-cast
sand-cloth
sand-colored
sand-etched
sand-faced
sand-finished
sand-float finish
sand-floated
sand-fly bush
sand-fly fever
sand-glass
sand-groper
sand-hemmed
sand-hill
sand-hill bloom
sand-hill crane
sand-hill rose
sand-hill rosemary
sand-hiller
sand-lime
sand-lime brick
sand-lot
sand-paper
sand-red
sand-strewn
sand-struck
sand-warped
sandal brick
sandal tree
sandalwood family
sandalwood oil
sandalwood tan
sandarac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sanding machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
sang de bouf
sang-de-boeuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sans reproche
sans serif
sans souci
sans-culotte
sans-culotterie
sans-culottic
sans-culottid
sans-culottides
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
sash weight
sash window
sash-window
sashay along
sashay off
sassa gum
sassafras laurel
sassafras medulla
sassafras nut
sassafras oil
sassafras pith
sassafras tea
sassy bark
satan monkey
satanic cunning
satchel charge
satellite DNA
satellite relay
satellite sphinx
satellite status
satem language
satin bird
satin bowerbird
satin cloth
satin glass
satin grass
satin moth
satin sheeting
satin spar
satin sparrow
satin stitch
satin stone
satin sultan
satin walnut
satin weave
satin white
satin-backed
satin-faced
satin-finished
satin-flower
satin-leaved
satin-lidded
satin-lined
satin-shining
satin-smooth
satin-striped
satin-worked
satiric humor
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
saturation factor
saturation curve
saturation level
saturation point
saturation pressure
saturation raid
saturnalia of blood
satyr butterfly
satyr orchid
satyr play
sauba ant
sauce boat
sauce espagnole
sauce-alone
sauce-boat
sauce-crayon
saucer dome
saucer eye
saucer eyes
saucer lake
saucer-eyed
saucer-shaped
sauna bath
saunce bell
saunders blue
sauro-
sausage balloon
sausage bassoon
sausage curl
sausage dog
sausage filler
sausage maker
sausage making
sausage meat
sausage poisoning
sausage roll
sausage tree
sausage turning
sausage-fingered
sausage-shaped
saussurite gabbro
saut de basque
sauter aux yeux
sauts de basque
sauva ant
sauve qui peut
sauve-qui-peut
sauvignon blanc
savage-featured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savonilla rhhatany
savanna blackbird
savanna flower
savanna forest
savanna sparrow
savanna wattle
savanna woodland
savate expert
save and except
save as you earn
save face
save for a rainy day
save the necessity
save to fall back on
save to fall back upon
save up
save your bacon
save your breath
save your face
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
saw grinder
saw guard
saw guide
saw handle
saw jointer
saw kerf
saw knife
saw log
saw logs
saw machine
saw machinery
saw maker
saw palmetto
saw palmetto berry
saw pit
saw set
saw setting
saw shark
saw sharpener
saw steel
saw straightener
saw swage
saw table
saw teeth
saw the air
saw tooth
saw tree
saw vise
saw wedge
saw wood
saw wrack
saw wrest
saw-billed
saw-edged
saw-fly
saw-handled
saw-leaved
saw-pierce
saw-pit
saw-shaped
saw-tooth wave
saw-toothed
saw-whet
saw-whet owl
saw-wort
sawara cypress
sawarra nut
sawbuck table
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
say what you think
say yes
say your lesson
say your prayers
say your say
say-nothing
say-so
scab mite
scab over
scabbard fish
scabby mouth
scabby-head
scaffold nail
scaff net
scaff-raff
scaffold nail
scala cordonata
scala media
scalar field
scalar product
scalar triple product
scald crow
scald' head
scald-fish
scalding hot
scale armor
scale beam
scale book
scale bug
scale buying
scale carp
scale caterpillar
scale charge
scale cordonate
scale degree
scale dove
scale down
scale drawing
scale duck
scale effect
scale fern
scale figure
scale fly
scale insect
scale leaf
scale louse
scale maker
scale making
scale micrometer
scale modulus
scale moss
scale off
scale passage
scale pipette
scale plan
scale plate
scale quail
scale reading
scale rule
scale selling
scale singing
scale stair
scale stone
scale the heights
scale the walls
scale wax
scale worm
scale-bearing
scale-board
scale-bright
scale-down
scale-tailed
scale-up
scaled partridge
scaled quail
scaled-down
scalene triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scalloped-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scaly tetter
scaly-bark
scaly-barked
scaly-finned
scaly-leg mite
scaly-stemmed
scaly-winged
scamper off
scan conversion
scan converter
scandal sheet
scandal-bearer
scandal-bearing
scandal-mongering
scandalous rumor
scandalum magnatum
scanning beam
scarcely to be expected
carcer than hen's teeth
scarcity price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scarlet lightning
scarlet lobelia
scarlet lychnis
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scarlet tanager
scarlet woman
scarlet-ariled
scarlet-barred
scarlet-berried
scarlet-blossomed
scarlet-breasted
scarlet-circled
scarlet-clad
scarlet-coated
scarlet-colored
scarlet-crested
scarlet-day
scarlet-faced
scarlet-flowered
scarlet-fruited
scarlet-gowned
scarlet-haired
scarlet-lined
scarlet-lipped
scarlet-red
scarlet-robed
scarlet-tipped
scarlet-vermillion
scarp wall
scarph joint
scat singing
scat-
scato-
scatological literature
scatter diagram
scatter pin
scatter pins
scatter rug
scatter seed
scatter shot
scatter to the winds
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
scent bottle
scent box
scent from afar
scent gland
scent out
scent scale
scented fern
scented grass
scented oak fern
scented tea
scented verbena
scentless camomile
schappe silk
schedule of operation
schedule rate
scheduled airline
scheduled castes
scheduled territories
scheme arch
scheme of arrangement
scheme out
schenk beer
schick test
schiller spar
schist oil
schistosome dermatitis
schiz-
schizo-
schizoid personality
schizothymic personality
schlieren effect
schlieren method
schlieren photography
schlock house
schlock rock
schlock shop
schmidt system
schola cantorum
scholae cantorum
scholarly edition
scholastic institution
scholastic theology
school account
school age
school agent
school airship
school aptitude
school argument
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
school bus
school case
school chalk
school chapel
school chart
school child
school clamh
school clamp
school clerk
school clock
school commissioner
school committee
school companion
school crayon
school day
school desk
school dictionary
school district
school divine
school divinity
school doctor
school door
school drilling
school edition
school emblem
school equipment
school ethics
school exercise
school fee
school for the handicapped
school friendship
school furniture
school garden
school globe
school grade
school grammar
school hour
school inspector
school kid
school lad
school land
school language
school library
school life
school locker
school logic
school manager
school manner
school map
school matter
school medicine
school model
school moralist
school morality
school name
school nurse
school of architecture
school of art
school of arts and crafts
school of communications
school of continuing education
school of design
school of drama
school of dramatic arts
school of education
school of fine arts
school of graphic arts
school of philosophy
school of the performing arts
school of thought
school officer
school omnibus
school opinion
school organ
school pad
school paper
school pedantry
school pence
school philosopher
school philosophy
school phrase
school playground
school porter
school prank
school principal
school prize
school publication
school publisher
school question
school quiddity
school railing
school ranking
school rating
school register
school ring
school roof
school rule
school savings bank
school scale
school schnapper
school scissors
school seat
school seating
school section
school shark
school ship
school sign
school signal
school slate
school snapper
school strap
school subtlety
school superintendent
school supervisor
school survey
school syllogism
school table
school tablet
school tax
school team
school term
school testing
school theology
school tie
school trick
school vacation
school ventilator
school vise
school wage
school wagon
school warden
school wardrobe
school welfare officer
school without walls
school year
school-age
school-bred
school-house
school-leaving
school-made
school-magisterial
school-taught
school-trained
schools and movements
schools of
schooner bark
schooner ketch
schooner rig
schooner-rigged
schorl-granite
schorl-rock
schreiner finish
sci-fi
sciara army worm
sciatic artery
sciatic foramen
sciatic neuritis
science dictionary
science fiction
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scissor tooth
scissor-fashion
scissor-grinder
scissor-legs
scissor-tailed
scissor-winged
scissors blade
scissors case
scissors chain
scissors chair
scissors fault
scissors hardener
scissors kick
scissors maker
scissors making
scissors pipe
scissors sharpener
scissors truss
scissors worker
scissors-fashion
scissors-grinder
scissors-shaped
scissors-smith
scler-
sclero-
sclero-oophoritis
sclero-optic
sclerosing inflammation
sclerotium disease
scoff at
scoinson arch
scold’s bridle
scolding bridle
scolding stool
scolding winds
sconcheon arch
scone cap
scoop bonnet
scoop driver
scoop neck
scoop neckline
scoop net
scoop out
scoop seat
scoop shovel
scoop the market
scoop wheel
scoop, the
scoop-net
scope of mind
scope of vision
scopol-
scops owl
scorched earth
scorched earth policy
scorched-earth tactics
scorching hot
score a breakthrough
score a bull's eye
score a success
score card
score off
score playing
score sheet
score up
scorn to accept
scorn to receive
scornful laugh
scornful smile
scorpion broom
scorpion bug
scorpion fish
scorpion fly
scorpion grass
scorpion iris
scorpion lobster
scorpion mouse
scorpion oil
scorpion plant
scorpion senna
scorpion shell
scorpion spider
scorpion thorn
scot and lot
scot-free
scotch broth
scotch cap
scotch roman
scotch terrier
scotch verdict
scotch whisky
scotch woodcock
scotch your wheel
scotch-hopper
scotch-irish
scotch-tape
scotch-taped
scotch-taping
scotland yard
scoto-
scottish gaelic
scottish rite
scottish terrier
scour out
scour the country
scourge top
scouring ball
scouring barrel
scouring cinder
scouring out
scouring pad
scouring rush
scouring stock
scout around
scout at
scout badge
scout boat
scout camp
scout car
scout commissioner
scout cruiser
scout executive
scout law
scout motto
scout oath
scout out
scout patrol
scout plane
scout salute
scout ship
scout sign
scout staff
scout training
scout vessel
scouting plane
scove kiln
scr-
scrabble up
scrabble your way up
scrag end
scrag whale
scram hand
scram-handed
scramble for
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape togetherness up
scrape up
scrape-finished
scrape-gut
scrape-shoe
scrape-trencher
scraper conveyer
scraper mat
scraper plane
scraper ring
scrappy con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch togetherness up
scratch wig
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-gereed
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
scrooch down
scrootch down
scrouch down
scrounge around
scrub birch
scrub bird
scrub brush
scrub bush
scrub chestnut oak
scrub fowl
scrub hickory
scrub juniper
scrub myrtle
scrub nurse
scrub oak
scrub out
scrub pine
scrub pine
scrub plane
scrub robin
scrub round
scrub sandalwood
scrub shrub
scrub turkey
scrub typhus
scrub up
scrub vine
scrub wren
scrub-bird
scrub-up
scrubbing board
scrubbing brush
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyph-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea blite
sea bloom
sea blossom
sea blubber
sea blue
sea boat
sea boots
sea bottle
sea boy
sea brant
sea breach
sea bread
sea bream
sea breeze
sea brief
sea buckthorn
sea bugloss
sea burdock
sea bush
sea butterfly
sea cabbage
sea cabin
sea calf
sea campion
sea captain
sea card
sea carp
sea cat
sea catfish
sea catgut
sea cauliflower
sea celandine
sea change
sea chest
sea chickweed
sea chub
sea clam
sea cliff
sea cloth
sea club rush
sea clutter
sea coal
sea cob
sea cock
sea coco
sea coconut
sea colander
sea cole
sea colewort
sea combat
sea compass
sea connection
sea coot
sea corn
sea cow
sea cradle
sea crawfish
sea crayfish
sea creature
sea cress
sea crow
sea cucumber
sea cudweed
sea cushion
sea daffodil
sea dahlia
sea daisy
sea date
sea day
sea devil
sea dock
sea dog
sea dotterel
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea membrane
sea mew
sea mile
sea milkwort
sea mink
sea mist
sea monk
sea monster
sea moss
sea moth
sea mouse
sea mud
sea mugwort
sea mulberry
sea mule
sea mullet
sea necklace
sea nettle
sea nymph
sea oak
sea oat
sea of flames
sea of grass
sea of troubles
sea officer
sea onion
sea ooze
sea orach
sea orange
sea ore
sea otter
sea owl
sea oxeye
sea palm
sea panther
sea park
sea parrot
sea parsley
sea parsnip
sea partridge
sea pass
sea pay
sea pea
sea peach
sea pear
sea peat
sea pen
sea perch
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea purslane
sea puss
sea quail
sea radish
sea ragweed
sea ragwort
sea ranger
sea rat
sea raven
sea reach
sea reed
sea rim
sea risk
sea risks
sea road
sea robber
sea robin
sea rocket
sea rod
sea room
sea rosemary
sea rover
sea ruffle
sea salmon
sea salt
sea sand
sea sand grass
sea sand reed
sea sandpiper
sea sands
sea sandwort
sea scallop
sea scorpion
sea scout
sea scouting
sea sedge
sea serpent
sea service
sea shell
sea shrub
sea silk
sea sled
sea slope
sea slug
sea smoke
sea snail
sea snake
sea snipe
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-circled
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-dragon
sea-driven
sea-eagle
sea-ear
sea-elephant
sea-encircled
sea-faring
sea-fern
sea-fight
sea-fighter
sea-fish
sea-flower
sea-foam
sea-food
sea-form
sea-fowl
sea-framing
sea-front
sea-gait
sea-gate
sea-girt
sea-god
sea-goddess
sea-going
sea-grape
sea-grass
sea-gray
sea-green
sea-gull
sea-heath
sea-heath family
sea-hedgehog
sea-hen
sea-holly
sea-holm
sea-horse
sea-island
sea-island cotton
sea-kale
sea-kale beet
sea-kindliness
sea-kindly
sea-king
sea-lane
sea-lawyer
sea-legs
sea-level
sea-level pressure
sea-line
sea-lion
sea-lost
sea-louse
sea-loving
sea-maid
sea-maiden
sea-mark
sea-monk
sea-monster
sea-mouse
sea-nymph
sea-otter
sea-otter's-cabbage
sea-packed
sea-parrot
sea-pie
sea-piece
sea-pike
sea-pink
sea-plane
sea-poacher
sea-potent
sea-purse
sea-quake
sea-racing
sea-raven
sea-robin
sea-room
sea-rounded
sea-rover
sea-roving
sea-run
sea-running
sea-sailing
sea-salt
sea-sand
sea-saw
sea-scape
sea-scented
sea-scourged
sea-serpent
sea-service
sea-shell
sea-shore
sea-shouldering
sea-sick
sea-side
sea-slug
sea-snail
sea-snake
sea-snipe
sea-spider
sea-star
sea-surrounded
sea-swallow
sea-swallowed
sea-torn
sea-tossed
sea-tost
sea-traveling
sea-trout
sea-urchin
sea-wall
sea-walled
sea-wandering
sea-ware
sea-washed
sea-water
sea-water green
sea-way
sea-weary
sea-wide
sea-wilder
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seakale beet
seal brown
seal character
seal coat
seal cutter
seal cutting
seal cylinder
seal fish
seal fisherman
seal fishery
seal fishing
seal hole
seal lock
seal maker
seal making
seal of approval
seal of confession
seal of secrecy
seal off
seal oil
seal point
seal press
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
sebi-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
secobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second officer
second paper
second papers
second person
second philosophy
second position
second prize
second rank
second reader
second reading
second self
second sex
second sight
second stomach
second story
second string
second stringer
second team
second thought
second thoughts
second to none
second wind
second youth
second-best
second-class
second-class mail
second-cut
second-cut file
second-degree
second-degree burn
second-drawer
second-feet
second-first
second-floor
second-foot
second-growth
second-guess
second-guesser
second-hand
second-handedness
second-in-command
second-line battleship
second-line destroyer
second-order reaction
second-rate
second-rateness
second-rater
second-sighted
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secondary condition
secondary contact
secondary diagonal
secondary digestion
secondary disease
secondary eardrum
secondary education
secondary electron
secondary emission
secondary evidence
secondary group
secondary infection
secondary intention
secondary issue
secondary modern school
secondary oocyte
secondary ordinary
secondary phloem
secondary planet
secondary plot
secondary processes
secondary propyl alcohol
secondary quality
secondary radiation
secondary road
secondary school
secondary schooler
secondary sense
secondary sex character
secondary sex characteristic
secondary sexual characteristic
secondary shock
secondary spermatocyte
secondary stress
secondary syphilis
secondary wave
secondary xylem
secondary-emission tube
secondhand clothes
secondhand shop
secondhand store
seconds pendulum
secret agent
secret ballot
secret block
secret caucus
secret exit
secret grip
secret heart
secret ink
secret language
secret nailing
secret name
secret order
secret partner
secret passage
secret place
secret places
secret police
secret recesses of the heart
secret service
secret society
secret staircase
secret thoughts
secret writing
secret-false
secret-service
secretarial school
secretaries-general
secretary bird
secretary bookcase
secretary of legation
secretary of state
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
section gang
section hand
section line
section man
section mark
section mill
section modulus
section paper
section plane
sector disk
sector gear
sector wheel
secular canoness
secular humanism
secular humanist
secular tertiaries
secular vicar
secure place in history
secure the engines
secure the main induction
secure your object
secured bond
secured loan
securi-
securities issue
security agreement
security analyst
security blanket
security clearance
security council
security force
security guard
security risk
sed-festival
sedan chair
sedan clock
sedan cruiser
sedan delivery truck
sedan landaulet
sedan limousine
sedative salt
sedge bird
sedge cane
sedge family
sedge fly
sedge grass
sedge hen
sedge root
sedge warbler
sedge wren
sediment bulb
sediment yeast
sedimentary clay
sedimentary rock
sedimentation coefficient
sedimentation test
sedition-proof
seduction-proof
see about
see action
see active duty
see after
see ahead
see as it really is
see at a glance
see badly
see beforehand
see both sides
see both sides of the question
see but one side of the question
see combat
see daylight
see double
see eye to eye
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seed cotton
seed crown
seed down
seed feed cup
seed fern
seed fish
seed hair
seed leaf
seed mesquite
seed money
seed oil cake
seed oyster
seed pearl
seed plant
seed planter
seed plants
seed plat
seed plate
seed plot
seed plow
seed pod
seed potato
seed screener
seed snipe
seed stitch
seed stock
seed tick
seed treatment
seed tree
seed vessel
seed weevil
seed-cake
seed-corn
seed-corn maggot
seed-eating bird
seed-lac
seed-lip
seed-pearl
seed-snipe
seed-time
seeding plow
seedtime of life
seeing as how
seeing distinctions
seeing double
seeing eye
seeing glass
seeing that
seek for
seek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
seized of
seized with
seizing stuff
seizing truck
seizure of power
sejant-erect
sejeant-erect
sel- dom
seldom ever
seldom if ever
seldom met with
seldom seen
select committee
selected passage
selected short subject
selected works
selection forest
selection principle
selection rule
selection system
selection value
selective assembly
selective attention
selective calculator
selective service
selective transmission
selective-head
selective-head lathe
selector switch
selen-
selenic acid
selenio-
selenious acid
selenium cell
seleno-
selenographic chart
self blue
self correlation
self destruction
self discharge
self examination
self incrimination
self psychologist
self psychology
self-
self-abandon
self-abandoned
self-abandoning
self-abandoningly
self-abandonment
self-abased
self-abasement
self-abasing
self-abdication
self-abhorrence
self-abhorring
self-ability
self-abnegating
self-abnegation
self-abnegatory
self-abominating
self-abomination
self-absorbed
self-absorption
self-abuse
self-abuser
self-accorded
self-accusation
self-accusative
self-accusatory
self-accused
self-accuser
self-accusing
self-acknowledged
self-acquaintance
self-acquainters
self-acquired
self-acquisition
self-acquitted
self-acted
self-acting
self-action
self-active
self-activity
self-actor
self-actualization
self-actualizing
self-actuating
self-adapting
self-adaptive
self-addiction
self-addressed
self-adhesion
self-adhesive
self-adjoint
self-adjustable
self-adjusting
self-adjustment
self-administer
self-administered
self-administering
self-admiration
self-admired
self-admirer
self-admiring
self-annulling
self-answering
self-antithesis
self-apparent
self-applauding
self-applause
self-applausive
self-application
self-applied
self-applying
self-appointed
self-appointment
self-appreciating
self-appreciation
self-approval
self-approved
self-approver
self-approving
self-arched
self-arching
self-arising
self-asserting
self-assertingly
self-assertion
self-assertive
self-assertively
self-assertiveness
self-assertory
self-assigned
self-assumed
self-assuming
self-assumption
self-assurance
self-assured
self-assuredness
self-attachment
self-attracting
self-attraction
self-attractive
self-attribution
self-auscultation
self-authority
self-authorized
self-authorizing
self-aware
self-awareness
self-bailing
self-balanced
self-banished
self-banishment
self-baptizer
self-basting
self-beautiful
self-beauty
self-bedizenment
self-befooled
self-begetter
self-begotten
self-beguiled
self-being
self-belief
self-benefit
self-benefiting
self-besot
self-betrayal
self-betrayed
self-betraying
self-betrothed
self-bias
self-binder
self-binding
self-black
self-blame
self-blamed
self-blessed
self-blind
self-blinded
self-blinding
self-blood
self-boarding
self-boasted
self-boasting
self-boiled
self-bored
self-born
self-buried
self-burning
self-called
self-cancelled
self-cancelled
self-canting
self-capacity
self-captivity
self-care
self-castigating
self-castigation
self-catalysis
self-catalyst
self-catering
self-causation
self-caused
self-center
self-centered
self-centered self-contained
self-centeredly
self-centeredness
self-centering
self-centerment
self-centralization
self-centration
self-centred
self-centredly
self-centredness
self-chain
self-changed
self-changing
self-charging
self-charity
self-chastise
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self-chastisement
self-chastising
self-cheatery
self-checking
self-chosen
self-christened
self-clamp
self-cleaning
self-clearance
self-closed
self-closing
self-cocker
self-cocking
self-cognition
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self-cognizance
self-coherence
self-coiling
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self-collectedness
self-collection
self-color
self-colored
self-colour
self-coloured
self-combating
self-combustion
self-command
self-commande
self-commendation
self-comment
self-commissioned
self-commitment
self-committal
self-committing
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self-communication
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self-communing
self-communion
self-comparison
self-compassion
self-compatible
self-compensation
self-competition
self-complacency
self-complacence
self-complacent
self-complacential
self-complacently
self-complaisance
self-completion
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self-composedness
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self-comprised
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self-concentrated
self-concentration
self-concept
self-concern
self-concerned
self-concerning
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self-conditioning
self-conduct
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self-confidence
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self-confidently
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self-contained ornament
self-containedly
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self-contraction
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self-contradicting
self-contradictory
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self-controlling
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self-convicting
self-conviction
self-cooking
self-cooled
self-correcting
self-correction
self-corrective
self-cororespondent
self-corresponding
self-corrupted
self-counsel
self-coupler
self-covered
self-cozening
self-created
self-creating
self-creation
self-creative
self-credit
self-credulity
self-cremation
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self-critically
self-criticism
self-cruel
self-cruelty
self-cultivation
self-culture
self-culturist
self-cure
self-cutting
self-damnation
self-danger
self-deaf
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self-debasing
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self-defeating
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self-diminishment
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self-disapprobation
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self-domination
self-dominion
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self-dosage
self-doubt
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self-duplication
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self-engrossment
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self-entertainment
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self-evidentism
self-evidently
self-evidentness
self-evolution
self-evolved
self-evolving
self-exaggerated
self-exaggeration
self-exaltation
self-exaltative
self-exalted
self-exalting
self-examinant
self-examination
self-examiner
self-examining
self-example
self-excellency
self-excitation
self-excite
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self-exculpation
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self-exposure
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self-expressiveness
self-extermination
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self-exulting
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self-frighted
self-fruitful
self-fruition
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self-fulfillment
self-fulfilment
self-furnished
self-furring
self-gaging
self-gain
self-gathered
self-gauging
self-generated
self-generating
self-generation
self-generative
self-given
self-giving
self-glazed
self-glazing
self-glorification
self-glorified
self-glorifying
self-glorious
self-glory
self-glorying
self-good
self-gotten
self-govern
self-governed
self-governing
self-governing dominion
self-government
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self-guidance
self-guiltiness
self-guiltless
self-guilty
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self-hang
self-hardened
self-hardening
self-harming
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self-healing
self-heating
self-help
self-helpful
self-helpfulness
self-helping
self-helpless
self-heterodyne
self-hid
self-hidden
self-hitting
self-holiness
self-homicide
self-honored
self-honoured
self-hood
self-hope
self-humbling
self-humiliating
self-humiliation
self-hypnosis
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self-hypnotism
self-hypnotization
self-hypnotized
self-idea
self-identical
self-identification
self-identity
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self-idolatry
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self-ignite
self-ignited
self-igniting
self-ignition
self-ignorance
self-ignorant
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self-illumined
self-illuminating
self-imitating
self-immolating
self-immolation
self-immunity
self-immurement
self-immuring
self-impairable
self-impairing
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self-impertinently
self-importance
self-imported
duty
self-imposed
duty
self-imposed
self-imposed
self-imposture
self-impious
self-imported
self-importing
self-improvable
self-improvement
self-improver
self-improving
self-impulsion
self-impulsion
self-inclosed
self-inclusive
self-inconsistency
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self-incrimination
self-incurred
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self-inductance
self-induction
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self-indulgence
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self-infatuation
self-infection
self-inflation
self-inflicted
self-infliction
self-initiated
self-initiative
self-injuries
self-injurious
self-injury
self-inker
self-inking
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self-inoculation
self-insignificance
self-inspected
self-inspection
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self-instructor
self-insufficiency
self-insurance
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self-insurer
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self-integration
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self-intensifying
self-intent
self-interest
self-interested
self-interestedness
self-interpretative
self-interpreted
self-interpreting
self-interpretive
self-interrogation
self-interrupting
self-intersecting
self-intoxication
self-introduction
self-intruder
self-invented
self-invention
self-invited
self-involution
self-involved
self-ionization
self-ironies
self-irony
self-irrecoverable
self-irrecoverableness
self-irrecoverable
self-issued
self-issuing
self-jealous
self-jealously
self-judged
self-judgement
self-judging
self-judgment
self-justification
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self-justifier
self-justifying
self-killed
self-killer
self-killing
self-kindled
self-kindness
self-knowing
self-knowledge
self-known
self-lacerating
self-laceration
self-lashing
self-laundation
self-laudatory
self-lauding
self-learn
self-left
self-leveler
self-leveling
self-leveller
self-levelling
self-levied
self-levitation
self-life
self-light
self-lighting
self-liking
self-limitation
self-limited
self-limiting
self-liquidating
self-liquidating loan
self-lived
self-loader
self-loading
self-loading dam
self-loathing
self-locating
self-locking
self-lost
self-love
self-lover
self-loving
self-lubricated
self-lubricating
self-lubrication
self-luminescence
self-luminescent
self-luminosity
self-luminous
self-maceration
self-mad
self-made
self-mailer
self-mailing
self-maimed
self-maintained
self-maintaining
self-maintenance
self-making
self-manifest
self-manifestation
self-mapped
self-martyrdom
self-mastered
self-mastering
self-mastery
self-mate
self-matured
self-measurement
self-mediating
self-merit
self-minded
self-mistrust
self-misused
self-mortification
self-mortified
self-motion
self-motive
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self-movement
self-mover
self-moving
self-multiplied
self-multiplying
self-murder
self-murdered
self-murderer
self-mutilation
self-named
self-naughting
self-neglect
self-neglectful
self-neglectfulness
self-neglecting
self-nourished
self-nourishing
self-nourishment
self-objectification
self-oblivion
self-oblivious
self-observation
self-observed
self-obsessed
self-obsession
self-occupation
self-occupied
self-offence
self-offense
self-offered
self-offering
self-oiling
self-opened
self-opener
self-opening
self-operating
self-operative
self-operator
self-opiniated
self-opiniatedly
self-opiniative
self-opiniativeness
self-opinion
self-opinionated
self-opinionatedly
self-opinionatedness
self-opinionative
self-opinionatively
self-opinionativeness
self-opinioned
self-opinionedness
self-opposed
self-opposition
self-oppression
self-oppressive
self-oppressor
self-ordained
self-ordainer
self-organization
self-originated
self-originating
self-origination
self-ostentation
self-outlaw
self-outlawed
self-ownership
self-oxidation
self-paid
self-painter
self-pampered
self-pampering
self-panegyric
self-parasitism
self-parricide
self-partiality
self-paying
self-peace
self-penetrability
self-penetration
self-perceiving
self-perception
self-perceptive
self-perfect
self-perfectibility
self-perfecting
self-perfectionment
self-performed
self-permission
self-perpetuated
self-perpetuating
self-perpetuation
self-perplexed
self-persuasion
self-physicking
self-pictured
self-pious
self-piquer
self-pitiful
self-pitifulness
self-pity
self-pitying
self-pityingly
self-planted
self-player
self-playing
self-pleached
self-pleased
self-pleaser
self-pleasing
self-pointed
self-poise
self-poised
self-poisedness
self-poisoner
self-polar triangle
self-policing
self-policy
self-politician
self-pollinate
self-pollinated
self-pollination
self-polluter
self-pollution
self-portrait
self-portraitist
self-posed
self-posited
self-positing
self-possessed
self-possessedly
self-possessing
self-possession
self-posting
self-postponement
self-potence
self-potential method
self-powered
self-praise
self-praising
self-precipitation
self-preference
self-preoccupation
self-preparation
self-prepared
self-prescribed
self-presentation
self-presented
self-preservation
self-preservation
self-preserving
self-preservingly
self-pretended
self-pride
self-primed
self-primer
self-priming
self-prizing
self-proclaimant
self-proclaimed
self-proclaiming
self-procured
self-procurement
self-procuring
self-proditoriously
self-produced
self-production
self-professed
self-profit
self-projection
self-pronouncing
self-propagated
self-propagating
self-propagation
self-propelled
self-propelled barge
self-propellent
self-propeller
self-propelling
self-propulsion
self-protecting
self-protection
self-protective
self-proving
self-provision
self-pruning
self-puffery
self-punished
self-punisher
self-punishing
self-punishment
self-punitive
self-purification
self-purifying
self-purity
self-quenched counter
self-question
self-questioned
self-questioning
self-quotiation
self-raised
self-raising
self-rate
self-rating
self-reacting
self-reading
self-realization
self-realizationism
self-realizationist
self-realizing
self-reciprocal
self-reckoning
self-recollection
self-recollective
self-reconstruction
self-recording
self-recrimination
self-rectifying
self-reduction
self-reduplication
self-reference
self-refinement
self-refining
self-reflection
self-reflective
self-reflexive
self-reform
self-reformation
self-refuted
self-refuting
self-regard
self-regardant
self-regarding
self-regardless
self-regardlessly
self-regardlessness
self-registering
self-registering barometer
self-registering thermometer
self-registration
self-regulate
self-regulated
self-regulating
self-regulating market
self-regulation
self-regulative
self-regulatory
self-relation
self-reliance
self-reliant
self-reliantly
self-relish
self-relying
self-renounced
self-renunciation
self-renunciatory
self-repeating
self-repellency
self-repellent
self-repelling
self-repetition
self-repose
self-representation
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self-repression
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self-reproachfulness
self-reproaching
self-reproachingly
self-reproachingness
self-reproducing
self-reproduction
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self-reproval
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self-reprovingly
self-repugnance
self-repugnancy
self-repugnant
self-repulsive
self-reputation
self-rescuer
self-resentment
self-resigned
self-resourceful
self-resourcefulness
self-respect
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self-respectfulness
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self-respectingly
self-resplendent
self-responsibility
self-restoring
self-restrained
self-restraining
self-restraint
self-restricted
self-restriction
self-retired
self-revealed
self-revealing
self-revealment
self-revelation
self-revelative
self-revelatory
self-reverence
self-reverent
self-reward
self-rewarded
self-rewarding
self-right
self-righteous
self-righteously
self-righteousness
self-righter
self-righting
self-rigorous
self-rising
self-rolled
self-roofed
self-ruin
self-ruined
self-rule
self-ruling
self-sacrifice
self-sacrificer
self-sacrificial
self-sacrificing
self-sacrificingly
self-sacrificingness
self-safety
self-same
self-sanctification
self-satirist
self-satisfaction
self-satisfied
self-satisfiedly
self-satisfying
self-satisfyingly
self-scanned
self-schooled
self-schooling
self-science
self-scorn
self-scourging
self-scrutinized
self-scrutinizing
self-scrutiny
self-sealer
self-sealing
self-searching
self-secure
self-security
self-sedimentation
self-sedimented
self-seeded
self-seeker
self-seeking
self-seekingness
self-selection
self-sent
self-sequestered
self-serve
self-server
self-service
self-serving
self-set
self-severe
self-shadowed
self-shadowing
self-shelter
self-sheltered
self-shine
self-shining
self-shooter
self-shot
self-significance
self-similar
self-sinking
self-slain
self-slaughter
self-slaughtered
self-slayer
self-society
self-sold
self-solicitude
self-soothed
self-soothing
self-sophistication
self-sought
self-sounding
self-sovereignty
self-sow
self-sowed
self-sown
self-spaced
self-spacing
self-speech
self-spitted
self-sprung
self-stability
self-stabilized
self-stabilizing
self-starter
self-starting
self-starved
self-steered
self-sterile
self-sterility
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self-stimulating
self-stimulation
self-stowing
self-strength
self-stripper
self-strong
self-stuck
self-study
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self-styled lawyer
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self-subdued
self-subjection
self-subjugating
self-subjugation
self-subordained
self-subordinating
self-subordination
self-subsidation
self-subsistence
self-subsistency
self-subsistent
self-subsisting
self-substantial
self-subversive
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self-sufficience
self-sufficiency
self-sufficient
self-sufficiently
self-sufficientness
self-sufficing
self-sufficingly
self-sufficingness
self-suggested
self-suggester
self-suggestion
self-suggestive
self-suppletive
self-support
self-supported
self-supportedness
self-supporting
self-supportingly
self-supportless
self-suppressing
self-suppression
self-suppressive
self-sure
self-surrender
self-surrendering
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-torment
self-tormented
self-tormenter
self-tormenting
self-tormentingly
self-tormentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triturating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-unity
self-unloader
self-unloading
self-unscabbarded
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaulted
self-vaunting
self-vendition
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
self-whole
self-widowed
self-will
self-willed
self-willedly
self-willedness
self-winding
self-wine
self-wisdom
self-wise
self-witness
self-witnessed
self-working
self-worn
self-worship
self-worshiper
self-worshippng
self-worshipper
self-worshipping
self-worth
self-worthiness
self-wounded
self-wounding
self-writing
self-written
self-wrong
self-wrongly
self-wrought
selfish person
self-liquidating loan
sell a pig in a poke
sell at a loss
sell at a sacrifice
sell at auction
sell by auction
sell down the river
sell for
sell foreign
sell gold bricks
sell in futures
sell off
sell on consignment
sell on credit
sell one on
sell out
sell over
sell over the counter
sell retail
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
sellenger's round
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-form
semi idiocy
semi idiomatic
semi-idiocy
semi-idiom
semi-idiomatic
semi-idiocy
semi-idiom
semi-idiomatic
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxicating
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semi-Russian
semi-air-cooled
semiautomatic control
semiautomatic rifle
semibreve rest
semicircular canal
semicircular canals
semiclassical music
semico-operative
semiconductor circuit
semiconductor device
semiconductor physics
semidrying oil
semilatus rectum
semilunar valve
semimajor axis
semiminor axis
seminal duct
seminal fluid
seminal imagination
seminal principle
semiotic unit
semipalmated plover
semipalmated sandpiper
semiprecious stone
semirigid airship
semisimple algebra
semiwater gas
semor sem
semper eadem
semper et ubique
semper fidelis
semper idem
semper paratus
semper-
sen robber
senate house
senate-house
senator-elect
senatorial courtesy
senatorial district
senatus consult
senatus consultum
send a letter to
send a note
send a statement
send a wire
send about your business
send abroad
send after
send away
send back
send down
send flying
send for
send forth
send headlong
send in
send in your papers
send mad
send off
send on a fool’s errand
send on a mission
send out
send out of your mind
send out rays
send packing
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroot
senega root
senega snakeroot
seneka root
seneka snakeroot
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
sense of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensori-
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensum theory
sensuous desire
sensuous pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septic poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serpent star
serpent stone
serpent-god
serpent-goddess
serpent-shaped
serpent-stone
serpentine front
serpentine green
serpentine marble
serpentine stretcher
serran imperial
serrana hispana
serrate-ciliate
serrate-dentate
serrato-
serre-papier
serri-
serum albumin
serum anaphylaxis
serum death
serum disease
serum gamma globulin
serum globulin
serum hepatitis
serum jaundice
serum prothrombin accelerator
serum shock
serum sickness
serum therapy
serum transfusion
servant girl
servant of God
servant of the servants of God
serve Mammon
serve an apprenticeship
serve as
serve in the capacity of
serve in the office of
serve in your stead
serve notice
serve one out
serve out
serve the office of
serve the purpose
serve time
serve with the colors
serve you right
serve your need
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
esquipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruited
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set about
set above
set abroach
set afloat
set against
set against one another
set agoing
set an anchor watch
set an arbitrary price on
set an end point
set an examination
set an example
set apart
set aside
set astir
set at
set at defiance
set at each other's throat
set at ease
set at hazard
set at intervals
set at large
set at liberty
set at naught
set at odds
set at rest
set at variance
set at your throat
set attention to
set back
set bar
set before
set before yourself
set book
set by
set by the ears
set chisel
set conditions
set designer
set down
set down as
set down for
set down for hearing
set down to
set eyes on
set fast
set fire to
set foot in
set foot on
set foot on dry land
set for
set form
set forth
set forward
set free
set function
set gauge
set going
set gun
set hammer
set her down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set limits
set little by
set mind
set naught by
set no store by
set nut
set of conditions
set of postulates
set of rooms
set of teeth
set of the current
set of three
set of two
set off
set off against
set off for
set off to advantage
set off to good advantage
set on
set on edge
set on fire
set on foot
set on its base
set on its beam ends
set on its feet
set on its legs
set on your feet
set on your legs
set one back
set one's face against
set out
set out for
set over against
set over against one another
set phrase
set piece
set pin
set point
set pot
set purpose
set right
set sail
set shot
set side by side
set someone on his feet
set speech
set square
set store by
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
setoff sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle- abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-tined
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
seventh-day
seventy-day
seventy-dollar
seventy-eight
seventy-eighth
seventy-fifth
seventy-first
seventy-five
seventy-foot
sexagesimo-quarto
sexed-up
sexi-
sextant altitude
sexto-decimo
sexton beetle
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overture
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shallow-read
shallow-rooted
shallow-rooting
shallow-sea
shallow-searching
shallow-sighted
shallow-soiled
shallow-thoughted
shallow-toothed
shallow-waisted
shallow-water
shallow-witted
shallow-wittedness
shalom aleichem
shalom alekhem
shalosh seudos
shalosh seudoth
sham object
sham subject
shama millet
shamalo grass
shame brier
shame child
shame vine
shame-burnt
shame-crushed
shame-eaten
shame-shrunken
shame-stricken
shame-swollen
shameless falsehood
shammy leather
shamrock green
shamrock pea
shamrock-pea
shangri-la
shank bone
shank cutter
shank grass
shank mill
shank of the afternoon
shank of the evening
shank painter
shank’s mare
shank's pony
shank-painter
shanks' mare
shanks' pony
shanks's pony
shanty boat
shanty boy
shanty-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-eared
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruited
sharp-gritted
sharp-ground
sharp-headed
sharp-heeled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-minded
sharp-nebbed
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinned
sharp-shinned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
sharp-tailed grouse
sharp-tailed sparrow
sharp-tasted
sharp-tasting
sharp-tempered
sharp-toed
sharp-tongued
sharp-toothed
sharp-toothed unkindness
sharp-topped
sharp-visaged
sharp-whetted
sharp-winged
sharp-witted
sharp-wittedly
sharp-wittedness
sharpen a distinction
sharpen the wits
sharpen your tools
sharper than a serpent’s tooth
sharptail mola
shatter your hopes
shattered mind
shattered nerves
shave away
shave grass
shave hook
shave off
shave rush
shaving basin
shaving board
shaving box
shaving brush
shaving case
shaving cream
shaving cup
shaving dies
shaving glass
shaving horse
shaving mill
shaving mirror
shaving mug
shaving paper
shaving paste
shaving powder
shaving set
shaving soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
she-kind
she-king
she-lion
she-malady
she-monster
she-negro
she-oak
she-page
she-panther
she-peace
she-pig
she-pine
she-poet
she-poetry
she-preacher
she-priest
she-relative
she-saint
she-salmon
she-school
she-scoundrel
she-society
she-sparrow
she-sun
she-thief
she-tongue
she-villain
she-whale
she-witch
she-wolf
she-woman
shea butter
shea tree
shea-nut
shea-nut oil
sheaf arrow
sheaf catalogue
shear angle
shear boom
shear hulk
shear legs
shear modulus
shear pin
shear plane
shear skid
shear steel
shear strain
shear stress
shear structure
shear transformation
shear zone
shear-grass
shear-legs
shearing deformation
shearing dies
shearing force
shearing machine
shearing plane
shearing punch
shearing stress
shearing tool
sheath gown
sheath knife
sheath moth
sheath pieffield
sheath pile
sheath-fish
sheath-winged
sheathe the sword
sheathing board
sheathing copper
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep dipper
sheep dipping
sheep dog
sheep fair
sheep farm
sheep farmer
sheep farming
sheep fescue
sheep fescue grass
sheep flake
sheep fly
sheep gadfly
sheep hound
sheep husbandry
sheep ked
sheep killer
sheep killing
sheep land
sheep laurel
sheep louse
sheep measles
sheep oat grass
sheep owner
sheep owning
sheep parsley
sheep pelt
sheep pest
sheep plant
sheep poison
sheep pox
sheep rack
sheep raiser
sheep raising
sheep ranch
sheep range
sheep reeve
sheep rot
sheep run
sheep scab
sheep scabious
sheep shears
sheep silver
sheep sorrel
sheep station
sheep tansy
sheep tick
sheep wash
sheep washer
sheep's eye
sheep's eyes
sheep's fescue
sheep's head
sheep's sorrel
sheep's-bit
sheep-biter
sheep-dip
sheep-grazing
sheep-hued
sheep-kneed
sheep-lice
sheep-root
sheep-shearer
sheep-shearing
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheepswool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell construction
shell couching
shell crest
shell cut
shell dove
shell down
shell drill
shell edging
shell expansion
shell eye
shell feed
shell fire
shell game
shell gland
shell gray
shell heap
shell hole
shell hooks
shell ibis
shell ice
shell jacket
shell limestone
shell marble
shell money
shell mound
shell out
shell parakeet
shell pear
shell pink
shell plating
shell pump
shell quail
shell reamer
shell reducer
shell road
shell room
shell ruching
shell sac
shell shock
shell snail
shell socket
shell steak
shell stitch
shell strake
shell transformer
shell turtle
shell-carving
shell-fish
shell-leaf
shell-less
shell-like
shell-shaped
shell-shock
shell-shocked
shell-worker
shelly pahoehoe
shelter belt
shelter cabin
shelter deck
shelter half
shelter pit
shelter tent
shelter trench
shelter under
shelter-deck vessel
sheltering trust
shelterwood method
shelving beach
shenk beer
shepherd dog
shepherd god
shepherd king
shepherd spider
shepherd's check
shepherd's dial
shepherd's dog
shepherd's needle
shepherd's pie
shepherd's pipe
shepherd's plaid
shepherd's purse
shepherd's staff
shepherd's weatherglass
shepherd's-purse
shepherd's-scabious
shepherd's-staff
sherbet powder
shere khan
sheriff court
sheriff depute
sheriff-substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shetland wool
shibuichi-doshi
shick-shack
shield arm
shield back
shield bearer
shield bud
shield budding
shield bug
shield cell
shield fern
shield fungus
shield grid
shield roots
shield wall
shield-back
shield-bearer
shield-bearing
shield-breaking
shield-fern
shield-headed
shield-leaved
shield-maiden
shield-scale fungus
shield-shaped
shield-tailed snake
shiffle-shuffle
shift about
shift ballast
shift bid
shift boss
shift for yourself
shift into
shift joint
shift key
shift lock
shift marriage
shift of structure
shift of tense
shift off
shift place
shift the blame
shift the control
shift the responsibility
shift the rudder
shift the scene
shift with
shift your ground
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-back
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship's papers
ship's ropes
ship's service
ship's tailor
ship's watch
ship's writer
ship-chandler
ship-holder
ship-load
ship-minded
ship-minutely
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe laster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
shoe-spoon
shoeblack plant
shoeing-horn
shoeless horse
shoestring catch
shoestring fern
shoestring fungus
shoestring lily
shoestring margin
shoestring potato
shoestring weed
shoggy-shoo
shoo-fly pie
shoo-in
shoofly finger
shoofly pie
shook swarming
shook up
shook-up
shoot ahead
shoot ahead of
shoot apex
shoot at
shoot back
shoot ballast
shoot craps
shoot down
shoot down in flames
shoot for
shoot full of holes
shoot into space
shoot it out with
shoot off at an angle
shoot off your face
shoot off your mouth
shoot out
shoot out rays
shoot questions at
shoot straight
shoot straight with
shoot the breeze
shoot the bull
shoot the chutes
shoot the shit
shoot the sun
shoot the works
shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
shop paper
shop right
shop rivet
shop steward
shop-board
shop-made
shop-soiled
shop-window
shopping cart
shopping center
shopping centre
shopping complex
shopping goods
shopping mall
shopping plaza
shopping precinct
shopping spree
shore bird
shore boat
shore boulder
shore cod
shore cover
shore crab
shore dinner
shore fast
shore grape
shore grass
shore lark
shore leave
shore line
shore onion
shore party
shore patrol
shore pay
shore pine
shore pipit
shore snipe
shore spurge
shore terrace
shore up
shore whiting
shore-going
shored up
shorn of
short account
short allowance
short and
short and sweet
short answer
short ballot
short bill
short bob
short circuit
short column
short commons
short covering
short cross
short cut
short demy
short distance
short division
short duration
short end
short extension
short field
short fuse pepperiness
short game
short haul
short hundredweight
short interest
short iron
short jenny
short leet
short leg
short line
short list
short loin
short measure
short memory
short memory span
short odds
short of
short of breath
short of cash
short of funds
short of luck
short of money
short of wind
short on looks
short order
short out
short pants
short particular meter
short period
short piece
short plate
short position
short range aid to navigation
short rations
short rib
short ribs
short sale
short score
short seller
short session
short short story
short shorts
short shrift
short side
short sight
short snorter
short spell
short splice
short step
short stock
short story
short subject
short suit
short supply
short sweetening
short temper
short time
short title
short ton
short up
short version
short vowel
short wave
short way
short weight
short wool
short-arm
short-arm balance
short-arm blow
short-armed
short-awned
short-barred
short-barreled
short-beaked
short-bearded
short-billed
short-bitten
short-bladed
short-bobbed
short-bodied
short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-change
short-changed
short-changer
short-changing
short-chinned
short-circuit
short-circuiter
short-clawed
short-cloaked
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mouthed
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suit
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-termed
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shoulder-clapper
shoulder-high
shoulder-hitter
shoulder-knot
shoulder-piece
shoulder-shotten
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-mouthed
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show palce
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shriek-owl
shrift-father
shrike thrush
shrike tit
shril sound
shril-edged
shril-gorged
shril-toned
shril-tongued
shril-voiced
shrimp catcher
shrimp pink
shrimp red
shrink back
shrink fit
shrink from
shrink link
shrink rule
shrink-wrap
shrinkage fit
shrinkage rule
shrinkage stope
shrink link
shrink head
shrink violet
shrive yourself
shrivelled up
shroud knot
shroud line
shroud lines
shroud plate
shroud-laid
shrouded in darkness
shrouded in mystery
shrouded spirit
shrove monday
shrove sunday
shrove tuesday
shrove-tide
shoving time
shrub cinquefoil
shrub mallow
shrub oak
shrub steppe
shrub willow
shrub yellowroot
shrubby cinquefoil
shrug away
shrug it off
shrug off
shrug the shoulders
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sowar
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quae ris penisulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
sickly-seeming
sickly-sweet
sickly-sweetness
sickness benefit
sickness insurance
sicut patribus sit Deus nobis
side action
side aisle
side arm
side arms
side ax
side band
side bar
side beam
side bench
side bet
side box
side boy
side brake
side by side
side cap
side car
side card
side chain
side chair
side chapel
side check
side chisel
side circuit
side cut
side cutting
side delivery
side dish
side door
side drum
side effect
side face
side frequency
side hatchet
side horse
side interest
side issue
side jointer
side keelson
side ladder
side lamp
side light
side line
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
side-look
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
sideslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siege perilous
siege piece
siege train
siege wagon
siege warfare
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sight reader
sight reading
sight rhyme
sight rule
sight screen
sight seeing trip
sight setter
sight unseen
sight vane
sight-feed
sight-hole
sight-read
sight-reader
sight-reading
sight-saver type
sight-see
sight-seeing
sight-seer
sight-shot
sight-unseen transaction
sighting angle
sighting hood
sighting shot
sightless eyes
sigma finite set
sigma particle
sigma-ring
sigmoid flexure
sign a petition
sign and seal
sign away
sign factor
sign for
sign in
sign language
sign manual
sign of aggregation
sign of the cross
sign of the three balls
sign of the times
sign of the zodiac
sign off
sign on
sign on the dotted line
sign out
sign over
sign painter
sign painting
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
signal light
signal lights
signal mast
signal modulation
signal multiplier
signal noise ratio
signal of distress
signal oil
signal post
signal red
signal relay
signal rocket
signal separator
signal service
signal shot
signal siren
signal squirter
signal tower
signal whistle
signal wire
signal-noise ratio
signal-to-noise ratio
signature loan
signature mark
signature tune
signed and sealed
signet ring
signet-ring
significance level
significant fact
significant figures
significant form
significate form
signify nothing
signifying nothing
signing on
signs manual
signs of the zodiac
silage cutter
silence cloth
silence of the grave
silence of the tomb
silent area
silent as a post
silent as a stone
silent as the grave
silent as the shadows
silent as the tomb
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicatod soap
silico-
silici-
silicic acid
silicified wood
silicium bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitride
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk-stocking district
silk-stocking politics
silk-stocking ward
silk-stockinged
silk-tail
silk-tassel tree
silk-winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken-sailed
silken-sandaled
silken-shining
silken-soft
silken-threaded
silken-winged
silking machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silkworm seed
silky anteater
silky camellia
silky cornel
silky grass
silky oak
silky swallowwort
silky terrier
silky-barked
silky-black
silky-haired
silky-leaved
silky-looking
silky-smooth
silky-soft
silky-textured
silky-voiced
sill cock
sill course
sill floor
sill-like
silly Billy
silly about
silly ass
silly grin
silly over
silly season
silly smilesilly-billy
silly-faced
silly-facedly
silly-shally
silo filler
silt grass
silt up
siluro-
silver age
silver bass
silver beard grass
silver bell
silver birch
silver bromide
silver cat
silver certificate
silver chloride
silver citrate
silver cord
silver cyanide
silver dollar
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver nitrate
silver ore
silver oxide
silver paper
silver perch
silver plate
silver plater
silver plating
silver point
silver polish
silver powder
silver protein
silver queen
silver sage
silver salmon
silver salt
silver screen
silver smelter
silver spoon
silver standard
silver star medal
silver storm
silver thaw
silver threads among the gold
silver tin
silver tongue
silver vine
silver vitellin
silver wattle
silver wedding
silver wedding anniversary
silver white
silver-backed
silver-bar
silver-bar fish
silver-barked
silver-barred
silver-bearded
silver-bearer
silver-bell
silver-bell tree
silver-black
silver-bordered
silver-bright
silver-buskined
silver-chased
silver-chiming
silver-clasped
silver-clear
silver-coated
silver-colored
silver-coloured
silver-copper
silver-corded
silver-cupped
silver-eddied
silver-embroidered
silver-eye
silver-eyed
silver-eyes
silver-feathered
silver-fleeced
silver-flowing
silver-footed
silver-fork
silver-fronted
silver-glittering
silver-golden
silver-grained
silver-gray
silver-grey
silver-hafted
silver-haired
silver-handled
silver-headed
silver-lace vine
silver-laced
silver-lead
silver-leafed
silver-leaved
silver-leaved linden
silver-leaved nightshade
silver-lined
silver-mail
silver-melting
silver-mounted
silver-penciled
silver-plate
silver-plated
silver-plating
silver-print drawing
silver-producing
silver-rag
silver-rimmed
silver-shafted
silver-shedding
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simmer down
simnel cake
simon legree
simon pure
simon-pure
simple Fink truss
simple algebra
simple algebraic extension
simple arc
simple as ABC
simple assault
simple chancre
simple circularity
simple closed curve
simple contract
simple diet
simple enumeration
simple equation
simple extension
simple fact
simple fraction
simple fracture
simple fruit
simple harmonic motion
simple honors
simple idea
simple inflammation
simple interest
simple interval
simple larceny
simple machine
simple majority
simple measure
simple microscope
simple motion
simple pole
simple protein
simple radical
simple reflex
simple sentence
simple soul
simple syrup
simple tense
simple time
simple transcendental extension
simple twist of the wrist
simple variable
simple vow
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thralled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunk
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodied
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-caped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crested
single-crop
single-cross
single-current telegraphy
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
single-dotted
single-driver
single-edged
single-end
single-ended
single-entry
single-entry accounting
single-entry bookkeeping
single-eyed
single-file
single-filed
single-finned
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-hearted
single-heartedly
single-heartenedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-leaded
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
single-whip tackle
single-wicket
single-wire
single-wired
singled out
singled-out
singleness of heart
singleness of purpose
singles court
singular point
singular proposition
sinister influence
sinister-handed
sinistro-
sink away
sink back
sink boat
sink box
sink down
sink in
sink in the mind
sink into despair
sink into oblivion
sink into the mind
sink like lead
sink money in
sink of corruption
sink of iniquity
sink or swim
sink or swim with
sink your soul
sink-hole
sink-stone
sinker bar
sinker boat
sinker drill
sinker wood
sinkhole drainage
sinking bowl
sinking fund
sinking head
sinking heart
sinking speed
sinking stomach
sinking-fund
sinking-fund bond
sinking-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuoso-
sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
siphon cup
siphon gauge
siphon off
siphon recorder
siphon slide
siphon spillway
siphono-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
sitio-
sitka spruce
sito-
sitter-by
sitter-in
sitter-out
sitting day
sitting duck
sitting height
sitting place
sitting room
sitting shot
sitting tenant
sitting trot
situation comedy
situation ethics
situational neurosis
situational psychosis
situs inversus
sitz bath
siva snake
siva-siva
siwash sweater
six and two threes
six feet above contradiction
six feet under
six o'clock
six point
six ways from Sunday
six-acre
six-angled
six-arched
six-banded
six-bar
six-barred
six-barreled
six-bottle
six-by-six
six-canted
six-cent
six-chambered
six-colored
six-cornered
six-coupled
six-course
six-cut
six-cylinder
six-cylindrical
six-day
six-dollar
six-eared
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-o'clock
six-ounce
six-pack
six-part time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
six-three-three
six-time
six-ton
six-week
six-weeks grass
six-wheel
six-wheeled
six-wheeler
six-winged
six-yard
six-yard area
six-yard line
six-year
six-year-old
sixpenny bit
sixteen-foot
sixteen-foot stop
sixteen-pounder
sixteenth note
sixteenth rest
sixth chord
sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
skeleton construction
skeleton dance
skeleton drill
skeleton girder
skeleton in the closet
skeleton in the cupboard
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
skimming back
skimming dish
skimming gate
skimming-dish
skimmington ride
skimper-scamp
skin alive
skin and bones
skin beetle
skin boat
skin book
skin cancer
skin coat
skin color
skin coloring
skin disease
skin dive
skin diver
skin diving
skin effect
skin eruption
skin flick
skin food
skin friction
skin friction drag
skin game
skin graft
skin grafting
skin layer
skin man
skin mark
skin nose
skin out
skin planing
skin resistance
skin spot
skin test
skin tone
skin wool
skin-breaking
skin-built
skin-clad
skin-clipping
skin-deep
skin-devouring
skin-dive
skin-dived
skin-diver
skin-diving
skin-dove
skin-peeled
skin-piercing
skin-plastering
skin-pop
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skinny as a lath
skinny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skip for joy
skip hoist
skip it
skip numbering
skip off
skip out
skip over
skip rope
skip straight
skip through
skip tracer
skip zone
skip-bomb
skip-bombing
skip-kennel
skipjack pike
skipjack tuna
skipping rope
skipping-rope
skirmish drill
skirmish line
skirt cassock
skirt chaser
skirt dance
skirt dancer
skirt marker
skirt of tasses
skirt the shore
skirt-dancer
skirting board
skirting table
skirting-board
skittle alley
skittle ball
skittle out
skittle pool
skittle pot
skittle-shaped
skivvy shirt
skookum-house
skrim shander
skua gull
skulk away
skull and crossbones
skull cracker
skull practice
skull session
skull-built
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky advertising
sky an oar
sky atlas
sky blue
sky compass
sky cover
sky dive
sky diver
sky diving
sky drain
sky farmer
sky gazer
sky gray
sky hooker
sky iron
sky line
sky map
sky marker
sky parlor
sky pilot
sky pipit
sky screen
sky shade
sky sign
sky train
sky truck
sky wave
sky-aspiring
sky-blasted
sky-blue
sky-blue pink
sky-born
sky-bred
sky-capped
sky-cast
sky-clad
sky-clear
sky-cleaving
sky-climbing
sky-color
sky-colored
sky-dive
sky-diving
sky-dome
sky-dyed
sky-elephant
sky-engendered
sky-facer
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rendering
sky-resembling
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraper
sky-sign
sky-throned
sky-tinctured
sky-touching
sky-worn
skye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slug cement
slug concrete
slug down
slug furnace
slug heap
slug hearth
slug sand
slug wool
slug-hearth
slug-lead
slug-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slapstick comedy
slapstick humor
slapstick quality
slash across
slash bar
slash mark
slash pine
slash pocket
slash the throat
slash-grain
slash-saw
slash-sawed
slash-sawing
slash-sawn
slat bonnet
slat sign
slat-back
slate ax
slate bed
slate black
slate blue
slate cement
slate clay
slate galiot
slate gray
slate green
slate olive
slate pencil
slate picker
slate purple
slate roof
slate spar
slate splitter
slate writer
slate writing
slate-beveling
slate-brown
slate-color
slate-colored
slate-colour
slate-cutting
slate-formed
slate-pencil
slate-spired
slate-strewn
slate-trimming
slate-violet
slaughter pen
slaughter tree
slaughter-breathing
slaughter-dealing
slaughter-house
slaughter-threatening
slave ant
slave broker
slave clock
slave cylinder
slave dealer
slave dealing
slave driver
slave fork
slave hunt
slave hunter
slave hunting
slave labor
slave labor camp
slave maker
slave market
slave ship
slave song
slave state
slave trade
slave trader
slave trading
slave-carrying
slave-collecting
slave-cultured
slave-deserted
slave-drive
slave-driver
slave-enlarging
slave-got
slave-grown
slave-labor
slave-making
slave-making ant
slave-merchant
slave-owning
slave-peopled
slave-trade
slaver over
slavo-
slay en masse
sleave silk
sleave-silk
sled cultivator
sled dog
sled harvester
sled knife
sled lister cultivator
sled marker
sled part
sled-log
sledge chair
sledge dog
sledge hammer
sledge-hammer
sleek stone
sleek-browed
sleek-faced
sleek-haired
sleek-headed
sleek-leaf
sleek-looking
sleek-skinned
sleeker-up
sleep around
sleep at your post
sleep drink
sleep in
sleep it off
sleep like a log
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedeafened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewed
sleep-dispelling
sleep-disturbing
open source used in Cisco Identity Services Engine 3.2

sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slick-talking
slick-tongued
slicked up
slicker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slide viewer
slide-
slide-action
slide-easy
slide-groat
slide-rest
slide-rest lathe
slide-rock
slide-rule
slide-rule warfare
slide-valve
slide-valve engine
slide-wire
slide-wire bridge
slider crank
slider-crank chain
sliding board
sliding fit
sliding friction
sliding keel
sliding scale
sliding seat
sliding vector
sliding way
sliding-gear
sliding-scale
sliding-scale premium
slight knowledge
slight over
slight stretching
slight wrong
slight-billed
slight-bottomed
slight-built
slight-esteemed
slight-informed
slight-limbed
slight-looking
slight-made
slight-natured
slight-seeming
slight-shaded
slight-timbered
slim chance
slim down
slim pickings
slim-ankled
slim-built
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
slip the cable
slip the collar
slip the memory
slip through
slip through your fingers
slip through your hands
slip tongue
slip up
slip ware
slip washer
slip wool
slip you a Mickey
slip you a Mickey Finn
slip your cable
slip your mind
slip-
slip-along
slip-knot
slip-on
slip-rail
slip-ring
slip-sheet
slip-shelled
slip-shoe
slip-skin
slip-slop
slip-stitch
slip-string
slip-tongue wheel
slip-top
slip-up
slip-way
slipcoat cheese
slipe wool
slipped disc
slipped disk
slipped tendon
slipped wing
slipper animalcule
slipper animalcules
slipper bath
slipper block
slipper boat
slipper brake
slipper chair
slipper drag
slipper foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
slocking stone
sloe gin
sloe plum
sloe thorn
sloe-black
sloe-blue
sloe-colored
sloe-eyed
slog away
slog on
sloop of war
sloop rig
sloop yacht
sloop-rigged
slop around
slop basin
slop book
slop bowl
slop chest
slop chute
slop cloth
slop dealer
slop frock
slop hand
slop jar
slop man
slop merchant
slop molding
slop on paint
slop out
slop over
slop padding
slop pail
slop room
slop sink
slop-built
slop-molded
slop-over
slop-seller
slop-shop
slop-work
slope arms
slope culture
slope form
slope up
slope-
slope-browed
slope-eared
slope-edged
slope-faced
slope-lettered
slope-roofed
slope-sided
slope-toothed
slope-walled
sloping downward
sloping upward
sloppy Joe
sloppy joe
slosh wheel
slot and filler
slot burner
slot conveyer
slot driller
slot file
slot machine
slot man
slot mortise
slot rail
slot washer
slot winding
slot-boring
slot-drill
slot-drilling
slot-drilling machine
slot-headed
slot-spike
sloth animalcule
sloth bear
sloth monkey
sloth tree
slotting auger
slotting drill
slotting end mill
slotting file
slotting machine
slouch around
slouch hat
slough bass
slough grass
slough ice
slough of despond
slough off
slough over
slovenly performance
slow ahead
slow and careful steps
slow as death
slow as molasses
slow as slow
slow astern
slow burn
slow coach
slow down
slow goer
slow handclap
slow loris
slow march
slow market
slow match
slow motion
slow neutron
slow off the mark
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endeavoring
slow-extinguished
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speeched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small octave
small pastern bone
small pica
small place
small potato
small potatoes
small price tag
small print
small royal
small screen
small share
small signal hybrid open circuit
small signal open circuit
small signal short circuit
small slam
small space
small stores
small stuff
small talk
small time
small tradesmen
small voice
small woodbine
small years
small-acred
small-ankled
small-arm
small-armed
small-arms
small-beer
small-billed
small-boat
small-bodied
small-boned
small-bore
small-boyhood
small-boyish
small-brained
small-caliber
small-celled
small-claims court
small-clawed
small-clothes
small-college
small-collegers
small-cornered
small-craft warning
small-crowned
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruited
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-mindedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
small-sword
small-tailed
small-talk
small-threaded
small-timbered
small-time
small-timer
small-tired
small-toned
small-tooth
small-toothed
small-topped
small-town
small-towner
small-trunked
small-type
small-visaged
small-visioned
small-ware
small-wheeled
small-windowed
smallmouth bass
smallpox plant
smallpox-proof
smalt green
smalt-blue
smart aleck
smart as a whip
smart ass
smart crack
smart money
smart operator
smart pace
smart saying
smart set
smart-aleck
smart-aleckiness
smart-alecky
smart-ass
smart-built
smart-cocked
smart-dressing
smart-looking
smart-money
smart-spoken
smart-stinging
smart-talking
smart-tongued
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piecec
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smatter of ignorance
smatter of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
smoke-consuming
smoke-consumptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby's ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-billed
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-foreheaded
smooth-fronted
smooth-fruited
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smooth-stemmed
smooth-surfaced
smooth-tailed
smooth-taper
smooth-taper drift
smooth-tempered
smooth-textured
smooth-tined
smooth-tired
smooth-tongued
smooth-voiced
smooth-walled
smooth-winding
smooth-winged
smooth-working
smooth-woven
smooth-writing
smooth-wrought
smoothback flounder
smoothbore gun
smoothbore weapon
smoothed out
smoother-over
smoothhound shark
smoothing box
smoothing iron
smoothing mill
smoothing of the way
smoothing plane
smother crop
smother fire
smother fly
smother-kiln
smothered mate
smudge fire
smudge pot
smug-faced
smug-looking
smug-skinned
smuggle in
smuggled goods
smut ball
smut fungus
smut gall
smut grass
smut mill
smut-free
smutty-faced
smutty-nosed
smutty-yellow
snack bar
snack stool
snack table
snaffle bit
snaffle-bridled
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarle efficiency
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
snaw-broo
sneak attack
sneak boat
sneak box
sneak current
sneak in
sneak off
sneak out
sneak out of
sneak preview
sneak shooting
sneak thief
sneak thievery
sneak through
sneak-
sneak-cup
sneak-up
sneaking suspicion
sneaky pete
sneck band
sneck drawer
sneck harling
sneck hook
sneck posset
sneck-drawer
sneer at
sneeshing box
sneeshing mill
sneeshing mull
sneeze at
sneeze gas
sneeze weed
sneezewort tansy
sneezewort yarrow
sneezing gas
snick and snee
snick drawer
snick-a-snee
snick-and-snee
snick-and-snee knife
snick-snarl
snicker at
sniff at
sniff out
sniffle valve
sniffles, the
snifter valve
sniifting valve
snigger at
snip-snap
snip-snap-snorum
snip-snappy
snipe at
snipe eel
snipe fly
snipe hawk
snipe hunt
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow partridge
snow pea
snow peak
snow pear
snow pellets
snow pheasant
snow pigeon
snow plant
snow plume
snow poppy
snow pudding
snow quail
snow rack
snow roller
snow rose
snow rosette
snow scale
snow sheen
snow sleep
snow slope
snow slush
snow smoke
snow snake
snow squall
snow stake
snow stream
snow tire
snow track
snow train
snow tree
snow trillium
snow tyre
snow under
snow vine
snow vole
snow water
snow white
snow wreath
snow-barricaded
snow-bearded
snow-beaten
snow-beater
snow-besprinkled
snow-blanketed
snow-blind
snow-blinded
snow-blown
snow-bright
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleeced
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
so-conditioned
so-considered
so-designated
so-fa syllables
so-formed
so-forth
so-ho
so-instructed
so-like
so-named
so-regarded
so-seeming
so-so
so-soish
so-styled
so-termed
so-titled
so-wise
soak Austral
soak hole
soak in
soak up
soaking furnace
soaking pit
soaking rain
soaking through
soaking wet
soaking-up
soap apple
soap ashes
soap box
soap box derby
soap brick
soap bubble
soap bulb
soap copper
soap dish
soap earth
soap flakes
soap fruit
soap gentian
soap nut
soap opera
soap orange
soap pad
soap plant
soap pod
soap powder
soap stone
soap test
soap the ways
soap tree
soap-boiler
soap-bubble
soap-fast
soap-maker
soapbark tree
soapberry family
soapberry tree
soapbox derby
soapbox orator
soapwort gentian
soar falcon
soar hawk
soaring costs
soaring heights
soaring plane
soaring prices
sob sister
sob story
sob stuff
sobe it
sober as a judge
sober down
sober fact
sober off
sober reality
sober senses
sober up
sober-blooded
sober-clad
sober-disposed
sober-eyed
sober-headed
sober-headedness
sober-minded
sober-mindedly
sober-mindedness
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social Darwinism
social Darwinist
social accounting
social activity
social affair
social anthropologist
social anthropology
social assistance
social barrier
social bee
social call
social circle
social class
social climber
social climbing
social code
social compact
social conduct
social conscience
social consciousness
social contract
social control
social convention
social critic
social dancer
social dancing
social democracy
social democrat
social differentiation
social director
social discrimination
social disease
social disorganization
social distance
social drinker
social drinking
social environment
social ethics
social evolution
social full-dress uniform
social gathering
social gospel
social grace
social graces
social grouping
social heritage
social incompatibility
social insurance
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretary
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjutant reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium biborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionite
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoracetate
sodium glutamate
sodium hydrate
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suing agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium sulphhydrate
sodium tetrabor
sodium tetraborate
sodium thiocyanate
sodium thiopental
sodium thiosulfate
sodium thiosulphate
sodium tungstate
sodium-vapor
sodium-vapor lamp
sodium-vapour lamp
sofa bed
sofa bedstead
sofa corner
sofa cover
sofa cushion
sofa maker
sofa pillow
sofa seat
sofa table
sofa-bed
sofa-ridden
soffit brick
soft armor
soft as a kiss
soft as a sigh
soft as clay
soft as dough
soft as putty
soft as silk
soft binding
soft chancre
soft clam
soft coal
soft color
soft currency
soft diet
soft drink
soft focus
soft furnishings
soft goods
soft ground
soft hail
soft hat
soft ice cream
soft in the head
soft landing
soft market
soft nose stem
soft on
soft palate
soft paste
soft patch
soft pedal
soft phototube
soft phrases
soft place in your heart
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-haired
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartenedness
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleeping
soft-sliding
soft-slow
soft-smiling
soft-soap
soft-soaper
soft-soaping
soft-solder
soft-soothing
soft-sounding
soft-speaking
soft-spirited
soft-spleened
soft-spoken
soft-spread
soft-spun
soft-steel
soft-swelling
soft-tailed
soft-tanned
soft-tempered
soft-throbbing
soft-timbered
soft-tinted
soft-toned
soft-tongued
soft-treading
soft-voiced
soft-wafted
soft-warbling
soft-water
soft-whispering
soft-winged
soft-witted
soft-wooded
soft-yielding
softblowing wind
soften the blow
soften up
softening of the brain
softening point
softening-up
softer sex
softwood tree
soi-disant
soil bank
soil binder
soil cap
soil cement
soil chemistry
soil conditioner
soil conservation
soil mechanics
soil miller
soil mulch
soil pipe
soil profile
soil rot
soil science
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar ecliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solar
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wire
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
sole-bound
sole-channeling
sole-commissioned
sole-cutting
sole-deep
sole-finishing
sole-happy
sole-justifying
sole-leather
sole-leather kelp
sole-living
sole-lying
sole-ruling
sole-saving
sole-seated
sole-shaped
sole-stitching
sole-sufficient
sole-thoughted
sole-walking
solemn affirmation
solemn declaration
solemn form
solemn mass
solemn mockery
solemn oath
solemn observance
solemn secret
solemn silence
solemn vow
solemn word
solemn-breathing
solemn-browed
solemn-cadenced
solemn-eyed
solemn-garbed
solemn-looking
solemn-mannered
solemn-measured
solemn-proud
solemn-seeming
solemn-shaded
solemn-sounding
solemn-thoughted
solemn-toned
solemn-visaged
solemnly mark
soleno-
solenoid brake
solent goose
solera sherry
solferino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somatic-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
 sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
somni-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
song-and-dance
song-and-dance act
song-bird
song-book
song-fraught
song-play
song-school
song-singing
song-smith
song-timed
song-tuned
song-worthy
sonic barrier
sonic boom
sonic depth finder
sonic depth sounder
sonic mine
sonic speed
sonic wall
sonnet sequence
sonny boy
sonority syllable
sons of Belial
sons of Martha
sons of guns
sons of men
sons of the devil
sons-in-law
soohee-moogee
soola clover
soon enough
soon-believing
soon-choked
soon-clad
soon-consoled
soon-contented
soon-descending
soon-done
soon-drying
soon-ended
soon-fading
soon-known
soon-mended
soon-monied
soon-parted
soon-quenched
soon-repeated
soon-repenting
soon-rotting
soon-said
soon-sated
soon-speeding
soon-tired
soon-wearied
sooner or later
sooner than
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbic acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressedsore-taxed
sore-taxed
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
soredi-
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunken
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostinente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou'-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthralling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humbling
soul-illumined
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-rending
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound hole
sound in the ear
sound in tune
sound in wind and limb
sound intensity
sound intensity level
sound judgment
sound knot
sound law
sound lens
sound like
sound limiter
sound line
sound man
sound mind
sound mixer
sound money
sound monitor
sound motion picture
sound of mind and body
sound of trumpets
sound off
sound out
sound pendulum
sound perimeter
sound picture
sound post
sound pressure
sound projector
sound proof
sound propagation
sound ranging
sound reasoning
sound recorder
sound recording
sound reproduction system
sound screen
sound sense
sound shadow
sound shift
sound shifting
sound shrill
sound similar
sound sleep
sound slidefilm
sound spectrogram
sound spectrograph
sound stage
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
souple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned
sour-dough
sour-eyed
sour-faced
sour-featured
sour-headed
sour-looked
sour-looking
sour-natured
sour-sap
disease
smelling
sop
sweet
tasted
tasting
tempered
tongued
visaged
book
material
delight
pleasure
light
supply
program
bread
cream
lieutenant
prefect
about
african
by east
by west
country
pole
sea
wind
- blowing
borne
east
-easterly
eastern
eastward
-facing
-following
-preceding
seaman
-seeking
side
south-east
south-west
southeast
southeastward
south-southerly
south-southwest
south-southwesterly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space capsule
space centredo
space charge
space crew
space curvature
space curve
space dock
space docking
space doctor
space engineering
space error
space exploration
space factor
space fiction
space flight
space formula
space frame
space group
space hazard
space heater
space heating
space helmet
space island
space isomerism
space key
space laboratory
space lat
space lattice
space line
space linkage
space man
space mark
space medicine
space mirror
space motion
space navigation
space observatory
space opera
space out
space perception
space platform
space probe
space probes
space quadrature
space rate
space ratio
space research
space rocket
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
space washer
space writer
space-bar
space-charge effect
space-crammed
space-embosomed
space-filling
space-lattice
space-occupying
space-penetrating
space-pervading
space-piercing
space-polar
space-saving
space-thick
space-time
space-time continuum
space-traveling
space-world
spaced out
spaced-antenna direction finder
spaced-loop direction finder
spaced-out
spaceport station
spacing Telegraphy
spacious mind
spacious of mind
spackling compound
spade bayonet
spade beard
spade cassino
spade convention
spade face
spade foot
spade graft
spade grass
spade guinea
spade handle
spade iron
spade lug
spade maker
spade money
spade press
spade rudder
spade-beard
spade-bearded
spade-cut
spade-deep
spade-dug
spade-footed
spade-fronted
spade-shaped
spade-trenched
spadefoot toad
spadici-
spading fork
spading harrow
spae-man
spaghetti Western
spaghetti and meat balls
spaghetti western
spall off
spalling hammer
span blocks
span dog
span iron
span loading
span of apprehension
span of attention
span of meaning
span roof
span shackle
span-
span-counter
span-farthing
span-hapenny
span-long
span-new
span-roof
spandrel frame
spandrel step
spandrel wall
spang-new
spangle-baby
spangled glass
spanish american
spanish bayonet
spanish broom
spanish fly
spanish heel
spanish influenza
spanish mackerel
spanish moss
spanish needles
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handedly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
spark generator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
spark-plug
spark-plug wrench
sparker-back
sparking lamp
sparking plug
sparking points
sparking voltage
sparkle metal
sparkle-blazing
sparkle-drifting
sparkle-eyed
sparkling Burgundy
sparkling synchysis
sparkling water
sparkling wine
spartling fowl
sparring mate
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialité de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
specialty contract
specialty shop
specialty stock
specie payment
specie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
tpectacle case
tpectacle clew
tpectacle coot
tpectacle frame
tpectacle furnace
tpectacle iron
tpectacle stone
tpectacled cobra
tpector sport
tpector bat
tpector candle
tpector crab
tpector lemur
tpector shrimp
tpector-fighting
tpector-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speech day
speech defect
speech form
speech from the throne
speech house
speech impediment
speech island
speech map
speech melody
speech organ
speech pathology
speech reading
speech rhythm
speech room
speech situation
speech sound
speech sounds
speech tune
speech-bereaving
speech-bereft
speech-bound
speech-famed
speech-flooded
speech-maker
speech-reading
speech-reporting
speech-shunning
speech-writing
speed along
speed away
speed boss
speed box
speed comparisons
speed cone
speed cones
speed control
speed controller
speed cop
speed counter
speed demon
speed flag
speed frame
speed freak
speed gauge
speed gear
speed indicator
speed lamp
speed lathe
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
pek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spermatophore sac
sperm-
spermicidal jelly
spermo-
spew out
spewing sickness
spey cast
sphae-ropsidaceous
sphaero-
sphagnum bog
sphagnum frog
sphagnum moss
spheno-
spheno-occipital
sphenoid bone
sphere circle
sphere crystals
sphere fungus
sphere gap
sphere geometry
sphere of influence
sphere of work
sphere tracks
sphere-born
sphere-descended
sphere-filled
sphere-found
sphere-headed
sphere-shaped
sphere-tuned
spheres of influence
spherical aberration
spherical angle
spherical coordinate
spherical coordinates
spherical excess
spherical geometry
spherical polygon
spherical sailing
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spic-
spick and span
spick and span new
spick-and-span
spick-and-spandy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spiffed up
spigot joint
spike bit
spike bowsprit
spike buck
spike disease
spike grass
spike heath
spike heel
spike knot
spike lavender
spike nail
spike oil
spike rush
spike shell
spike team
spike tub
spike your guns
spike-billed
spike-horned
spike-kill
spike-lavender oil
spike-leaved
spike-nail
spike-pitch
spike-pitcher
spike-rush
spike-tailed
spike-tooth
spike-tooth harrow
spiked alder
spikenard tree
spiketail coat
spiketail family
spiking piece
spile driver
spiling batten
spill blood
spill box
spill ink
spill it
spill light
spill out
spill over
spill stream
spill the beans
spill your guts
spill-
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesia
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spindle bander
spindle fiber
spindle fibers
spindle file
spindle kin
spindle oil
spindle pointer
spindle sander
spindle shell
spindle side
spindle sprout
spindle step
spindle stone
spindle stretcher
spindle stromb
spindle temper
spindle tree
spindle tuber
spindle whorl
spindle-cell
spindle-cell sarcoma
spindle-celled
spindle-formed
spindle-legged
spindle-pointed
spindle-rooted
spindle-shanked
spindle-shaped
spindle-shinned
spindle-side
spindle-tree
spindling sprout
spine cell
spine-ache
spine-bashing
spine-breaking
spine-broken
spine-chiller
spine-chilling
spine-clad
spine-covered
spine-finned
spine-headed
spine-pointed
spine-protected
spine-rayed
spine-tail
spine-tailed
spine-tailed swift
spine-tipped
spinel group
spinel pink
spinel ruby
spinel-red
spinet desk
spini-
spinnaker boom
spinnaker pole
spinnaker staysail
spinner of yarns
spinner play
spinning axis
spinning box
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mammilla
spinning mite
spinning mule
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spinocerebellar tract
spinous process
spinous-branched
spinous-finned
spinous-foliaged
spinous-leaved
spinous-pointed
spinous-serrate
spinous-tailed
spinous-tipped
spinous-toothed
spinuli-
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruit
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-geared
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-prompted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spirketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
splanchno-
splash back
splash dam
splash feed
splash guard
splash lubrication
splash of rain
splash out
splash system
splash zone
splash-
splash-down
splash-lubricate
splash-tight
splat-back
splatter-faced
splay-edged
splay-footed
splay-kneed
splay-legged
splay-mouthed
splay-toed
spleen amaranth
spleen stone
spleen-born
spleen-devoured
spleen-pained
spleen-piercing
spleen-shaped
spleen-sick
spleen-struck
spleen-swollen
spleenwort bush
splen-
splendid isolation
splenic fever
spleno-
splice bar
splice box
splice graftage
splice grafting
splice the main brace
splicing chamber
splicing hammer
spline broach
spline clutch
spline joint
spline milling machine
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
split your head
split your sides
split-
split-bottom
split-eared
split-edge
split-face
split-level
split-lift
split-mouth
split-nosed
split-oak
split-off
split-phase
split-phase motor
split-screen technique
split-second watch
split-timber
split-tongued
split-up
splitmouth sucker
splitting chisel
splitting factor
splitting field
splitting gun
splitting headache
splitting in two
splitting plate
splitting the atom
splitworm moth
spodo-
spoil bank
spoil for
spoil ground
spoil paper
spoil-
spoil-mold
spoil-paper
spoiled brat
spoiled child
spoiled darling
spoiled rotten
spoiling for
spoils of office
spoils system
spoke auger
spoke in your wheel
spoke stitch
spoke-dog
spoken language
spoken word, the
spolia opima
spon-image
spondylitis deformans
sponge bag
sponge bath
sponge cake
sponge cloth
sponge cucumber
sponge diver
sponge down
sponge drop
sponge finger
sponge fisher
sponge fisherman
sponge gourd
sponge grafting
sponge hook
sponge iron
sponge mop
sponge off
sponge on
sponge out
sponge pudding
sponge rubber
sponge tree
sponge up
sponge-bearing
sponge-cake
sponge-colored
sponge-diving
sponge-fishing
sponge-footed
sponge-leaved
sponge-painted
sponge-shaped
spongi-
sponging house
sponging-house
spongio-
spongo-
spongy-flowered
spongy-footed
spongy-looking
spongy-rooted
spongy-wet
spongy-wooded
spontaneous combustion
spontaneous generation
spontaneous recovery
spontaneous response
spool bed
spool turner
spool turning
spool winder
spool-shaped
spooling bracket
spoon bait
spoon bit
spoon bow
spoon brake
spoon bread
spoon chisel
spoon end
spoon food
spoon gouge
spoon hook
spoon iron
spoon lever
spoon meat
spoon nail
spoon net
spoon oar
spoon out
spoon tool
spoon victual
spoon victuals
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
spoon-feeding
spoon-formed
spoon-meat
spoon-shaped
spoonbill cat
spoonwood ivy
spoony over
spor-
sporadic E layer
sporadic cholera
spore ball
spore case
spore cell
spore fruit
spore mother cell
spore print
spore sac
sporo-
sport car
sport clothes
sport coat
sport fish
sport jacket
sport plane
sport shirt
sport your oak
sport-affording
sport-giving
sport-hindering
sport-loving
sport-making
sport-starved
sporting blood
sporting book
sporting chance
sporting dog
sporting editor
sporting girl
sporting goods
sporting goods store
sporting house
sporting lady
sporting man
sporting page
sporting section
sporting-wise
sports car
sports clothes
sports day
sports editor
sports jacket
sports page
sports parachutist
sports plane
sports section
sports shirt
sports suit
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spread with
spread yourself
spread-eagle
spread-eagled
spread-eagleism
spread-eagleist
spread-eagling
spread-out
spread-over
spread-set
spreader beam
spreader car
spreading abroad
spreading board
spreading dogbane
spreading factor
spreading like a cancer
spreading like wildfire
spreading machine
spreading out
spreading too thin
sprig bolt
sprig budding
sprig-bit
sprig-tailed
sprightly wit
spring a leak
spring a mine under
spring a surprise
spring apart
spring azure
spring back
spring balance
spring barley
spring base
spring beam
spring beauty
spring bed
spring beetle
spring bell
spring binder
spring block
spring bolt
spring bows
spring brass
spring caliper
spring calipers
spring cankerworm
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cowslip
spring cress
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphid
spring grass
spring green
spring gun
spring hammer
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
spring-head
spring-headed
spring-heeled
spring-jointed
spring-loaded
spring-lock
spring-made
spring-peering
spring-planted
spring-plow
spring-rail frog
spring-raised
spring-seated
spring-set
spring-snecked
spring-sowed
spring-sown
spring-spawning
spring-stricken
spring-tail
spring-taught
spring-tempered
spring-tide
spring-tight
spring-tooth harrow
spring-touched
spring-trip
spring-trip hoe
spring-well
spring-wood
springer spaniel
springing cow
springing line
springing point
springing wall
springtide of life
springtime of life
sprinkler head
sprinkler system
sprinkling can
sprinkling system
sprint car
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-geared
spur-gilled
spur-heeled
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squads-left
squads-right
squall cloud
squall line
squam duck
squam-
squamo-
squamo-occipital
squamoso-
squamous epithelium
squander in drabs and drabs
squanter-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square meter
square mile
square millimeter
square number
square odds
square of opposition
square off
square one
square peg in a round hole
square piano
square rig
square root
square root planimeter
square sail
square serif
square set
square shake
square shooter
square shooting
square splice
square the circle
square the yards
square things
square tin
square up
square wave
square with
square with the evidence
square with the facts
square yourself with
square-John
square-barred
square-based
square-bashing
square-bladed
square-bodied
square-bottomed
square-browed
square-butted
square-cheeked
square-chinned
square-countered
square-cut
square-dancer
square-dealing
square-draw
square-drill
square-eared
square-edged
square-figured
square-fronted
square-headed
square-hewn
square-jawed
square-jointed
square-leg
square-lipped
square-looking
square-made
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-sterned
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
squaring lathe
squaring the circle
squarroso-
squarroso-dentate
squarroso-laciniate
squarroso-pinnatipartite
squarroso-pinnatisect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squeal on
squeegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
squinancy berry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
squirrel-trimmed
squirrels-foot fern
squirreltail grass
squirt can
squirt gun
squirt-fire
squirting cucumber
squish-squash
squitch grass
stab at
stab culture
stab in the back
stab kick
stab pass
stab to death
stab wages
stab wound
stabat mater
stabbing pain
stabilization fund
stable color
stable door
stable equation
stable equilibrium
stable fly
stable oscillation
stable police
stable state
stable-born
stable-stand
staccato mark
staccato sound
stack against
stack of bones
stack process
stack room
stack the cards
stack the deck
stack up
stack up with
stack-garth
stacked deck
stacking band
stacking belt
stacking swivel
stadia hair
stadia rod
stadia wire
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
staff vine
staff walk
staff work
staff-herd
staff-tree family
staffordshire terrier
stag beetle
stag bush
stag dance
stag film
stag gang
stag moss
stag party
stag sumac
stag the market
stag tick
stag’s-horn coral
stag-beetle
stag-evil
stag-eyed
stag-hafted
stag-handled
stag-headed
stag-headedness
stag-horn
stag-horned
stag-necked
stag-sure
stage boat
stage box
stage brace
stage business
stage carriage
stage cloth
stage coachman
stage direction
stage directions
stage director
stage door
stage effect
stage fright
stage left
stage lighting
stage management
stage manager
stage managership
stage micrometer
stage name
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunk
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stall angl
stall angle
stall angle of attack
stall around
stall for time
stall landing
stall net
stall off
stall plate
stall reader
stall-fed
stall-feed
stall-feeding
stall-like
stall-master
stalling angle
stalling angle of attack
stalling speed
stallion plague
stamin-
stamp and go
stamp battery
stamp book
stamp booklet
stamp copper
stamp dealer
stamp duty
stamp hammer
stamp in the memory
stamp licker
stamp mill
stamp note
stamp of approval
stamp on
stamp out
stamp pad
stamp rock
stamp tax
stamp upon
stamp your foot
stamp-licking
stamped on the memory
stamped securities
stamping ground
stamping mill
stance fatigue
stanch friendship
stanchion gun
stand a chance
stand a good chance
stand aghast
stand agog
stand alone
stand aloof
stand aloof from
stand and be counted against
stand apart
stand around
stand aside
stand at attention
stand at bay
stand at ease
stand at parade rest
stand at the head
stand away
stand back
stand back of
stand bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauge
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
standing high jump
standing jump
standing lug
standing martingale
standing matter
standing on end
standing on its base
standing on its feet
standing on its legs
standing order
standing orders
standing ovation
standing place
standing rigging
standing room
standing room only
standing salt
standing stone
standing to
standing treat
standing up
standing upright
standing vise
standing water
standing wave
standing way
standing-place
standing-wave indicator
standoff coat
standoff half
stanford-binet test
stank hen
stann-
stannel hawk
stannic acid
stannic oxide
stannic sulfide
stannic sulphide
stanno-
stannoso-
staphylo-
staple fiber
staple fur
staple item
staple punch
staple right
staple-fashion
staple-headed
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star cucumber
star cut
star density
star disk
star drift
star drill
star dust
star facet
star feed
star fern
star finch
star finder
star fort
star gauge
star gear
star ghost
star gooseberry
star grass
star hummingbird
star hyacinth
star image
star in the firmament
star ipomoea
star jasmine
star jelly
star lily
star lot
star map
star metal
star motion
star network
star of David
star of bethlehem
star of david
star pagoda
star pepper
star phlox
star pine
star place
star plate
star plum
star point
star-directed
star-distant
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
star-sweet
star-taught
star-thistle
star-throated
star-watching
star-wearing
star-wise
star-ypointing
starboard anchor
starboard engine
starboard engine ahead
starboard tack
starch blue
starch cellulose
starch corn
starch gum
starch hyacinth
starch layer
starch paste
starch room
starch sheath
starch sirup
starch star
starch syrup
starch tree
starch-digesting
starch-producing
starch-reduced
starch-sized
stare at
stare decisis
stare down
stare hard
stare openmouthed
stare out
stare out of countenance
stare you in the face
stare-about
starfish flower
stark blind
stark dead
stark naught
stark upright
stark-awake
stark-becalmed
stark-blind
stark-calm
stark-dead
stark-drunk
stark-dumb
stark-false
stark-mad
stark-naked
stark-naught
stark-new
stark-raving
stark-raving mad
stark-spoiled
stark-staring
stark-staring mad
stark-stiff
stark-wild
stark-wood
starling stone
starnose mole
starring role
starry campion
starry grasswort
starry heaven
starry heavens
starry host
starry orbs
starry-bright
starry-eyed
starry-eyed over
starry-flowered
starry-golden
starry-headed
starry-nebulous
stars and bars
stars and stripes
stars-of-Bethlehem
stars-of-Jerusalem
start all over
start aside
start back
start going
start in
start music
start off
start on
start out
start the ball rolling
start up
start-naked
start-off
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
state-provided
state-provisioned
state-prying
state-ridden
state-room
state-ruling
state-socialist
state-taxed
state-wide
state-wielding
stated cause
stated clerk
stated value
stateless person
stately home
stately-beauteous
stately-grave
stately-paced
stately-sailing
stately-storied
stately-written
statement covering the evidence
statement covering the facts
statement of belief
statement of claim
statement of defense
statement of facts
statement of principles
statement under oath
states general
states' righter
states' rights
states-people
static ceiling
static electricity
static field
static firing
static friction
static line
static propeller thrust
static stability
static tube
static water
station agent
station break
station day
station error
station hospital
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
statute-barred
statute-book
statutes mixed
statutory crime
statutory declaration
statutory law
statutory lien
statutory next of kin
statutory offense
statutory rape
statutory referendum
staunch belief
staunch friend
staunch friendship
stauro-
stave basket
stave in
stave oak
stave off
stave pipe
stave rhyme
stay alert
stay alive
stay aloof
stay at
stay at home
stay awake
stay away
stay away in droves
stay bar
stay boom
stay briefed
stay busk
stay chain
stay detached from
stay employed
stay for
stay foresail
stay girder
stay hole
stay in hiding
stay in line
stay in shape
stay in soundings
stay in the background
stay in the shade
stay inshore
stay it out
stay late
stay law
stay near
stay of execution
stay on
stay on the beam
stay on the treadmill
stay on your heels
stay on your tail
stay out
stay over
stay pin
stay plow
stay put
stay stitching
stay tackle
stay tap
stay the distance
stay tube
stay up
stay up for
stay up into the small hours
stay up late
stay with it
stay young
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stay-ship
stay-tape
staying over
staying power
staysail schooner
steadfast faith
steady market
steady nerves
steady pin
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-laundered
steam-pocket
steam-processed
steam-propelled
steam-ridden
steam-roll
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamer basket
steamer captain
steamer chair
steamer clam
steamer contract
steamer crew
steamer cruise
steamer dock
steamer duck
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electrotyle
steel emery
steel engraver
steel engraving
steel factory
steel fiber
steel glass
steel gray
steel grey
steel guitar
steel hand
steel lumber
steel magnate
steel man
steel manufacturer
steel manufacturing
steel master
steel measurer
steel merchant
steel mill
steel mirror
steel orchestra
steel pen
steel plate
steel presser
steel share
steel spring
steel square
steel string
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pen
steel-plated
steel-pointed
steel-rimmed
steel-riveted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
stem girdler
stem leaf
stem length
stem mother
stem rot
stem rust
stem sapper
stem sawfly
stem sickness
stem smut
stem stitch
stem the current
stem the flood
stem the tide
stem turn
stem work
stem-bearing
stem-bud
stem-clasping
stem-end rot
stem-sick
stem-wind
stem-winder
stem-winding
stem-winding watch
sten-
stench bomb
stench of decay
stench trap
stencil cutter
stencil cutting
stencil machine
stencil painting
stencil paper
stencil pen
stencil printing
steneo saurys
steno-
stenographing machine
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step dancing
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stero camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
stern anchor
stern board
stern boat
stern chase
stern chaser
stern fast
stern frame
stern gallery
stern gun
stern hatch
stern hatchway
stern hook
stern knee
stern ladder
stern line
stern race
stern rail
stern sea
stern sheets
stern staysail
stern timber
stern tube
stern walk
stern wave
stern wheel
stern window
stern-bearer
stern-board
stern-born
stern-browed
stern-chase
stern-chaser
stern-eyed
stern-faced
stern-fast
stern-featured
stern-gated
stern-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
stetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick aroundor about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stick-at-itive
stick-at-itiveness
stick-at-nothing
stick-back
stick-button
stick-candy
stick-dice
stick-ear
stick-in-the-mud
stick-jaw
stick-lac
stick-leg
stick-legged
stick-out
stick-ride
stick-to-it-iveness
stick-to-itive
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
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stiff-mud
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stiff-neckedly
stiff-neckedness
stiff-plate
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stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swathed
stiff-tailed
stiff-udder
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stifle bone
stifle joint
stifle shoe
stifle-out
stigma disk
stigmal vein
stigmatic grating spectrograph
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stibene dye
stibine color
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stiletto heel
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stiletto-shaped
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still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
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still-birth
still-born
still-burn
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stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
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sting moth
sting nettle
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sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
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stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
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stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
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stirrup bone
stirrup cover
stirrup cup
stirrup dram
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stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
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stitch watermark
stitch wheel
stitching horse
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stochastic matrix
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stock assessment
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stock duck
stock eagle
stock exchange
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stock farmer
stock farming
stock feeder
stock fire
stock footage
stock gillyflower
stock gold
stock guard
stock hawk
stock horse
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stock insurance company
stock issue
stock ledger
stock list
stock lock
stock manipulation
stock margin
stock market
stock market quotations
stock note
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stock option
stock owl
stock pass
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stock power
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stock rate
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stock record
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stock shot
stock soap
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stock tackle
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stoop-shouldered
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stop at nothing
stop bath
stop bead
stop blowing
stop breathing
stop by
stop chorus
stop clause
stop clock
stop cold
stop consonant
stop dead
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stop down
stop drill
stop finger
stop for breath
stop gauge
stop in
stop in your tracks
stop inor stop by
stop it
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stop knob
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stop list
stop log
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stop screw
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stop shot
stop spine
stop street
stop stroke
stop tester
stop the breath
stop the clock
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stop thief
stop thrust
stop time
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stop up
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stop volley
stop watch
stop wheel
stop work
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stop your mouth
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storm-felled
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storm-presaging
storm-rent
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storm-trooper
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storm-wise
storm-worn
storm-wrecked
storming party
stormy petrel
stormy weather
stormy winds
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story line
story post
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stout-stalked
stout-stomached
stout-winged
stout-worded
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stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
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stove-heated
stove-pipe
stove-warmed
stoved salt
stovepipe hat
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stow down
stow it
stow net
stow-blade
stow-boating
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straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggle tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-body
straight-cut
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straight-edged
straight-faced
straight-falling
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straight-flung
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straight-front
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straight-hairedness
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strain your invention
strained relations
strainer arch
strainer core
strainer gate
strainer vine
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straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
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strand flat
strand former
strand line
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strand rat
strand snipe
strand wolf
strange duck
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strange-voiced
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strangler tree
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strap drill
strap fern
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strap joint
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strategic line
strategic materials
strategic plan
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strato-cumulus
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stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
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stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
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straw bond
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stray current
stray energy
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streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
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stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
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stream of light
stream of time
stream piracy
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stream tin
stream wheel
stream-bordering
stream-drive
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stream-illumed
stream-line
stream-of-conscience
stream-of-consciousness novel
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streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
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street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
street door
street dress
street elbow
street fight
street floor
street game
street girl
street market
street name
street of fallen women
street orderly
street organ
street people
street piano
street plate
street price
street railway
street singer
street sweeper
street urchin
street virus
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street-cleaning
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street-sweeping
street-walker
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strength of purpose
strength of will
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strengthening card
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strepto-
streptococcus tonsilitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
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stretch fabric
stretch forth a helping hand
stretch forth your hand
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stretch modulus
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stretch out
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stretch to
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stretching out
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strict constructionist
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strict interpretation
strict law
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strike at the root of
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strike blind
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strike camp
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strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
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strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
stringing-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
striped grass
striped hyena
striped maple
striped marlin
striped snake
striped spermophile
striped squirrel
striped-leaved
stripped atom
stripped bare
stripped down
stripped of
stripped of illusion
stripped to the buff
stripper-harvester
stripping bare
stripping down
stripping liquor
stripping of rank
strive about
strive against
strive for
strive to
strive with
strobe light
strobe lighting
stroboscopic light
stroboscopic photography
stroke culture
stroke hole
stroke oar
stroke oarsman
stroke of death
stroke of lightning
stroke of luck
stroke of policy
stroke of the hour
stroke of the pen
stroke of wit
stroke of work
stroke play
stroke stitch
stroker-in
strolling gait
strolling minstrel
strolling player
strong accumulation point
strong argument
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-bodied
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study GIVEN
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stump foot
stump it
stump joint
stump jumper
stump mast
stump mortise
stump orator
stump puller
stump ranch
stump rot
stump speaker
stump speaking
stump speech
stump spud
stump sucker
stump tail
stump tenon
stump the country
stump topmast
stump tracery
stump tree
stump up
stump wood
stump work
stump-fingered
stump-footed
stump-jump
stump-jump plow
stump-jumping plow
stump-legged
stump-nosed
stump-rooted
stump-tail
stump-tailed
stump-tailed lizard
stumping tour
stunner hitch
stunt flier
stunt flying
stunt girl
stunt man
stunt woman
stupefied with boredom
stupefyingly boring
stupid ass
stupid grin
stupid thing
stupid work
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
styour throw
styptic pencil
styrally acetate
styrone resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
sub-Christian
sub-Himalayan
sub-Pontine
sub-Pyrenean
sub-agent
sub-arch
sub-assembly
sub-base
sub-constable
sub-district
sub-edit
sub-editor
sub-head
sub-human
sub-jugate
sub-lease
sub-let
sub-level
sub-lieutenant
sub-machine-gun
sub-man
sub-officer
sub-prefect
sub-rosa
sub-title
sub-treasurer
sub-treasury
sub-war
sub-zero
subacute rheumatism
subaerial deposit
subaltern genus
subarctic current
subassembly plant
subatomic particle
subatomic particles
subclavian artery
subclavian groove
subclavian vein
subclinical infection
subcloud car
subconscious drive
subconscious knowledge
subconscious mind
subconscious perception
subconscious self
subconscious urge
suberic acid
subero-
subhymenial layer
subject case
subject catalog
subject catalogue
subject for thought
subject index
subject matter
subject of thought
subject substantive
subject term
subject to
subject to a duty
subject to a fee
subject to a tax
subject to call
subject to close scrutiny
subject to death
subject yourself
subject-matter
subject-object
subject-objectivity
subject-raising
subjective certainty
subjective complement
subjective idealism
subjective idealist
subjective inspection
subjective speculation
subjective spirit
subjectivo-
subjectivo-objective
subjunct adjective
subjunct word
sublimation pressure
sublimation vein
sublime tobacco
subliminal advertising
subliminal perception
subliminal self
sublimity summit
submachine gun
submarine badge
submarine chaser
submarine killer
submarine mine
submarine patrol boat
submarine sandwich
submarine sentry
submarine telegraphy
submarine tender
submarine torpedo
submarine warfare
submaxillary gland
submerged coast
submerged in
submerged mind
submerged-tube boiler
subminiature camera
submit to
submit to indignity
submit with a good grace
suboctave coupler
subordinate clause
subordinate conjunction
subordinate ordinary
subordinate role
subordinate to
subordinate yourself
subordinating conjunction
subornation of perjury
subpoena ad testificandum
subpoena duces tecum
subscribe to
subscriber trunk dialling
subscription book
subscription concert
subscription edition
subscription library
subscription list
subscription television
subsequent to
subsidiary coin
subsidiary company
subsidiary sense
subsidy citizen
subsidy man
subsist in
subsistence agriculture
subsistence allowance
subsistence department
subsistence farming
subsistence level
subsistence money
subsistence stores
subsistent form
subsoil plough
subsoil plow
subsonic flight
subsonic jet
subsonic speed
subspace topology
substance of life
substandard language
substandard speech
substandard usage
substantial meal
substantiality theory
substantially true
substantive basis
substantive law
substantive point
substantive rank
substantive right
substitute for
substitution cipher
substitution deposit
substitution group
substitution tables
substitution therapy
substitution vein
subsurface tillage
subtarget machine
subtense bar
subterranean river
subtle body
subtle color
subtle distinction
subtle influence
subtle odor
subtle wit
subtle-brained
subtle-cadenced
subtle-fingered
subtle-headed
subtle-looking
subtle-meshed
subtle-minded
subtle-nosed
subtle-paced
subtle-scented
subtle-shadowed
subtle-souled
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
subtractive process
subtropical anticyclone
subtropical high
suburban market
subvalent electrons
subzero weather
succade gourd
succeed in
succeed to
succeed to the throne
succeed with
succes d'estime
succes de scandale
success fou
success story
successful advocate
successful defender
successful person
succession duty
succession of ideas
succession of thought
succession of time
succession state
succin-
succinic acid
succino-
succory blue
succumb to
such and such
such as
such being the case
such stuff as dreams are made on
such stuff as dreams are made on
such-and-such
such-like
suck dry
suck fly
suck in
suck into
suck off
suck out
suck the blood from
suck the blood of
suck up
suck up to
suck your blood
suck your breath
suck your wind
suck-
suck-bottle
suck-egg
suck-in
sucked dry
sucked into
sucker bait
sucker foot
sucker for
sucker list
sucker rod
sucket fork
sucking louse
sucking pig
sucking-fish
sucking-pig
sucking-pump
suckling pig
sucro-
suction anemometer
suction chamber
suction cleaner
suction cup
suction dredge
suction flask
suction hose
suction machine
suction pipe
suction primer
suction producer
suction pump
suction root
suction stop
suction stroke
suction sweeper
suction valve
sudan grass
sudden and quick in quarrel
sudden attack
sudden change
sudden death
sudden development
sudden impulse
sudden infant death syndrome
sudden or radical change
sudden pull
sudden thought
sudden turn
sudden-beaming
sudden-starting
sudden-whelming
sue at law
sue for
sue for divorce
sue out
sue to
suede cloth
suede gloves
suet pudding
suet refiner
suffer a misfortune
suffer an eclipse
suffer anguish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar baker
sugar bakery
sugar basin
sugar bean
sugar beet
sugar bird
sugar bowl
sugar brake
sugar bush
sugar cake
sugar camp
sugar candy
sugar cane
sugar cookie
sugar corn
sugar daddy
sugar diabetes
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujee-mujee
suji-muji
sulcato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulfite paper
sulfite process
sulfite pulp
sulfo group
sulfo radical
sulfon-
sulfonic acid
sulfonyl chloride
sulfur black
sulfur butterfly
sulfur dioxide
sulfur dye
sulfur trioxide
sulfur-bottom
sulfur-bottom whale
sulfur-colored
sulfur-flower
sulfur-yellow
sulfurated potash
sulfureted hydrogen
sulfuric acid
sulfuric anhydride
sulfuric ether
sulfurous acid
sulfurized potash
sulfuryl chloride
sulfuryl group
sulfuryl radical
sulky lister
sulky plow
sulky-shaped
sulla clover
sullage head
sullen looks
sullen rabies
sullen-browed
sullen-eyed
sullen-looking
sullen-natured
sullen-seeming
sullen-sour
sullen-visaged
sullen-wise
sulph-sulpha drug
sulphanilic acid
sulphate green
sulphate paper
sulphate process
sulphate pulp
sulphate ultramarine
sulphato-
sulphide color
sulphide dye
sulphide toning
sulphindigotic acid
sulphine color
sulphine yellow
sulphite brown
sulphite pulp
sulpho salt
sulpho-
sulpho-acid
sulpho-salt
sulphocarbon oil
sulphon cyanine
sulphon cyanine black
sulphonic acid
sulphonium compound
sulphur acid
sulphur alcohol
sulphur bacteria
sulphur black
sulphur butterfly
sulphur candle
sulphur chloride
sulphur color
sulphur dioxide
sulphur dye
sulphur ether
sulphur family
sulphur granule
sulphur lime
sulphur match
sulphur monochloride
sulphur oil
sulphur olive oil
sulphur ore
sulphur paste
sulphur plant
sulphur rain
sulphur rose
sulphur shower
sulphur subchloride
sulphur toning
sulphur trioxide
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queening
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanced
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunk
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
summer-tilled
summer-time
summer-up
summer-weight
summing register
summing up
summing-up
summit canal
summit conference
summit level
summit yard
summit-level canal
summon forth
summon spirits
summon up
summon up courage
summons case
summons of death
summons-proof
summum bonum
summum genus
summum jus
sump cut
sump fuse
sump pit
sump pump
sump shot
sump winze
sumping cut
sumping shot
sumpter horse
sumpter mule
sumptuary law
sumptuary laws
sumptuary ordinances
sums total
sun animalcule
sun arc
sun bark
sun bath
sun bather
sun bear
sun bittern
sun blind
sun blindness
sun burner
sun clock
sun compass
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-begotten
sun-blackened
sun-blanched
sun-blind
sun-blasted
sun-blown
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courting
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
sun-delighting
sun-descended
sun-dial
sun-drawn
sun-dried
sun-dry
sun-eclipsing
sun-excluding
sun-expelling
sun-exposed
sun-eyed
sun-faced
sun-feathered
sun-filled
sun-fish
sun-flagged
sun-flaring
sun-flooded
sun-fringed
sun-gazed
sun-gazing
sun-gilt
sun-god
sun-graced
sun-graze
sun-grazer
sun-grebe
sun-grown
sun-heated
sun-illumined
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaiting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sundra tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supple-sinewed
supple-sliding
supple-visaged
supple-working
supple-wristed
supplemental plumage
supplementary angle
supplementary angles
supplementary benefit
supplementary reserves
supplementary story
supply base
supply bond
supply clergy
supply depot
supply minister
supply of short-term funds
supply on hand
supply preacher
supply price
supply services
supply ship
supply support
supplying electricity
support for
support life
support line
support mission
support politically
support proper
support trench
support yourself
supporting actor
supporting cast
supporting character
supporting distance
supporting evidence
supporting instrumentalist
supporting player
supporting role
supporting treatment
supportive relationship
supportive therapy
supposing that
suppressed desire
suppressio veri
suppressor grid
suppurative arthritis
suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophagial
supra-esophageal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
suraanal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surface paper
surface plate
surface printing
surface quality
surface radar
surface railway
surface resistance
surface resistivity
surface rib
surface show
surface strain
surface structure
surface switch
surface tension
surface texture
surface wave
surface yeast
surgical measure
surgical needle
surgical nurse
surgical operation
surgical shock
surgical spirit
surgical technique
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surmounted arch
surplice fee
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surplus value
surplus- age
surprise attack
surprise ending
surprise package
surprise party
surrealist tachism
surrealist tachist
surrender charge
surrender one's colors
surrender value
surrender your life
surround verge
sursum corda
surveillance radar
survey course
surveying sextant
surveyor general
surveyor's arrow
surveyor's chain
surveyor's compass
surveyor's dial
surveyor's level
surveyor's measure
survival of the fittest
survival rate
survival value
survive or perish
survivorship annuity
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susceptive to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspender belt
suspense account
suspense drama
suspense ledger
suspense story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
suspensive veto
suspensory ligament
suspensory veto
suspicion-proof
sussex spaniel
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sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarrow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swage block
swage bolt
swage-set
swagger coat
swagger stick
swagger-
swago bass
swallow an insult
swallow anything
swallow dive
swallow fish
swallow flycatcher
swallow hawk
swallow hole
swallow hook
swallow it
swallow plover
swallow roller
swallow shrike
swallow stone
swallow the bitter pill
swallow the pill
swallow thorn
swallow up
swallow warbler
swallow whole
swallow your dust
swallow your pride
swallow your words
swallow-fork
swallow-hole
swallow-tail
swallow-tailed
swallow-tailed coat
swallow-tailed kite
swallow-wing
swami house
swamp andromeda
swamp angel
swamp apple
swamp ash
swamp azalea
swamp bay
swamp beggar-tick
swamp birch
swamp black gum
swamp blackberry
swamp blackbird
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globeflower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privet
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkwed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp dwelling
swamp-growing
swamp-loving
swamp-oak
swamp-oak
swamping resistance
swan animalcule
swan boat
swan dive
swan goose
swan knight
swan maiden
swan mussel
swan neck
swan neck pediment
swan orchid
swan pan
swan potato
swan shift
swan shot
swan song
swan's down
gos's neck
gos's neck pediment
gos's-down
gos-bosomed
gos-clad
gos-drawn
gos-eating
gos-fashion
gos-hopper
gos-hopping
gos-like
gos-mark
gos-neck
gos-pan
gos-plumed
gos-poor
gos-proud
gos-sweet
gos-tuned
gos-upper
gos-upping
gos-white
gos-winged
goskinking stick
goskin calico
gos hook
gos horses
gos places with
sward-cut
sward-cutter
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
sweede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweep the strings
sweep ticket
sweep under the rug
sweep up
sweep you off your feet
sweep-chimney
sweep-oar
sweep-second
sweeping change
sweeping net
sweeping process
sweeping score
sweeping statement
sweet William
sweet almond
sweet almond oil
sweet alyssum
sweet and pungent
sweet and sour
sweet as a nut
sweet as a rose
sweet as honey
sweet as sugar
sweet basil
sweet bay
sweet birch oil
sweet calamus
sweet cassava
sweet cherry
sweet chestnut
sweet chocolate
sweet cicely
sweet cider
sweet clover
sweet coltsfoot
sweet corn
sweet crab apple
sweet false camomile
sweet father of soft rest
sweet fern
sweet flag
sweet gale
sweet grass
sweet gum
sweet marjoram
sweet marten
sweet mock orange
sweet nature
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
swell-headed
swell-headedness
swell-mobsman
swelled head
swelled-gelatin
swelled-gelatin process
swelled-headed
swelled-headedness
swelling utterance
sweltering heat
swept deck
swept up
swept-back
swept-forward
swift as an arrow
swift boat
swift fox
swift moth
swift rate
swift shrike
swift-advancing
swift-brought
swift-burning
swift-changing
swift-concerted
swift-declining
swift-effected
swift-fated
swift-finned
swift-flowing
swift-flying
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swift-judging
swift-lamented
swift-marching
swift-paced
swift-posting
swift-recurring
swift-revenging
swift-running
swift-rushing
swift-seeing
swift-sliding
swift-slow
swift-spoken
swift-starting
swift-stealing
swift-streamed
swift-swimming
swift-tongued
swift-winged
swiftering line
swill down
swill up
swill-bowl
swill-tub
swim against the current
swim bladder
swim bow
swim fin
swim fins
swim in
swim mask
swim suit
swim upstream
swim with the current
swim with the stream
swim with the tide
swim-bladder
swimmer's itch
swimming bath
swimming bell
swimming bladder
swimming costume
swimming crab
swimming eyes
swimming funnel
swimming hole
swimming of the head
swimming plate
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swine pox
swine thistle
swine vesicular disease
swine's feather
swine-backed
swine-bread
swine-chopped
swine-cote
swine-eating
swine-faced
swine-headed
swine-mouthed
swine-pipe
swine-pox
swine-snouted
swine-stead
swine-stone
swine-sty
swing arm
swing at
swing back
swing band
swing bar
swing beam
swing boat
swing bolster
swing bolt
swing bridge
swing cart
swing chair
swing district
swing door
swing drawbridge
swing from one thing to another
swing gate
swing hammer crusher
swing in with
swing jack
swing joint
swing knife
swing leg
swing music
swing musician
swing on
swing open
swing plate
swing plow
swing round
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swinging tow
swinish gluttony
swinish multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
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swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
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swollen with pride
swollen-cheeked
swollen-eyed
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swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
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sword arm
sword bayonet
sword bean
sword belt
sword blade
sword breaker
sword cane
sword cut
sword cutler
sword cutlery
sword dance
sword dancer
sword dollar
sword fern
sword flag
sword flax
sword grass
sword guard
sword hand
sword hanger
sword hilt
sword in hand
sword kin
sword knot
sword law
sword lily
sword maker
sword mat
sword of Damocles
sword sedge
sword service
sword side
sword swallower
sword swallowing
sword tash
sword thrust
sword tip
sword-armed
sword-bearer
sword-bearership
sword-billed
sword-girded
sword-girt
sword-grass
sword-leaved
sword-play
sword-shaped
sword-tailed
swordfish sucker
sworn and affirmed
sworn enemy
sworn evidence
sworn off
sworn statement
sworn testimony
sworn to
swot up
swung dash
sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
syenite-porphyry
syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
sylvic acid
sym-
symbol-using animal
symbolic books
symbolic code
symbolic language
symbolic logic
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symbolic system
symbolical books
symbolist movement
symbolist verse
symbols of
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
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symphonic music
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symphony band
symphony concert
symphony orchestra
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symphysio-
sympiot complex
symptomatic anthrax
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syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
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synchro-cyclotron
synchronic linguistics
synchronized shifting
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synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
synchrotron radiation
syncopated music
syncro-mesh
syndesmo-
synectics group
synneusis texture
synodic month
synonym dictionary
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syntactic structure
syntax language
syntectic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningoencephalitis
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syphilo-
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systematic amnesia
systematic botany
systematic theology
systematically terrorize
systemic insecticide
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systems design
systems engineering
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systole and diastole
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t b
t distribution
t formation
t square
t will
t'ai chi chu'an
t'ao t'ieh
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t-man
t-shirt
tRNA
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ta-ta
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table the motion
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table tripod
table turning
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table work
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table-cut
table-cutter
table-cutting
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table-hopped
table-hopper
table-hopping
table-land
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table-rapping
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tacca arrowroot
tacheo-
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tacho-
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tack board
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tack comb
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tack on
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tack up
tack weld
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tack welding
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tactical plan
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tactile process
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tadpole fish
tadpole-shaped
tae-kwan-do
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taenii-
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taffeta weave
taffrail log
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tag alder
tag along
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tag boat
tag dance
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tag-addressing
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tag-marking
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tail bay
tail beam
tail block
tail boom
tail coat
tail cone
tail covert
tail end
tail fan
tail fin
tail fly
tail force
tail gate
tail grab
tail grape
tail group
tail gunner
tail hook
tail house
tail in a gate
tail joist
tail lamp
tail lock
tail off
tail pipe
tail pit
tail plane
tail print
tail rhyme
tail rod
tail rope
tail rotor
tail set
tail shaft
tail skid
tail slide
tail spin
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
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tail-low landing
tail-piece
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tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
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tailed frog
tailed sonnet
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tailings auger
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tailor warbler
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tailor-make
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tailor-suited
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taint-free
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take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack attake a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleaners
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the gauntlet
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box
taken aback
taken as granted
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double
taker-down
taker-in
taker-off
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in	al-laisim
talba gum	
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing	
talc pencil
talc pulverizer
talc schist
talc-grinding
talca gum
talco gum
talcum powder	
tale-teller
tale-telling
taleh gum
talent money
talent scout
talent show
talented person
talha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person
talked about
talked-about
talked-of
talkee-talker
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos
talky-talk
talky-talker	
tall as a maypole
tall coreopsis
tall drink	
tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columned
tall-corn
tall-elapsed
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow handling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow meler
tallow nut
tallow oil
tallow pot
tamarind plum
tamarisk family
tamarisk salt
tamarisk salt tree
tamarix family	
tambookie grass
tambour clock
tambour lace
tambour stitch
tambour stitcher
tambour work
tame-grief
tame-grown
tame-lived
tame-looking
tame-minded
tame-natured
tame-spirited
tame-witted	
tammie norie
tammy cloth
tamp in
tamper with	
tampered with
tamping bar
tamping iron
tamping pick
tamping stick
tan bay
tan oak
tan your hide	
tan-burning
tan-colored
tan-faced
tan-mouthed
tan-sailed
tan-skinned
tan-strewn	
tan-tan
tan-tinted
tan-trodden	
tanbark beetle
tanbark oak
tanbark tree
tandem bicycle	
tandem cart
tandem plane
tandem rotors
tandem seat
tandem-compound
tandem-punch
tandem-rotor helicopter
tang chisel
tang end
tangent distance
tangent galvanometer
tangent plane
tangent-cut
tangent-saw
tangent-sawed
tangent-sawing
tangent-sawn
tangential motion
tangerine-colored
tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed
tangle-legs
tangle-tail
tangle-tailed
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tank fighter
tank furnace
tank iron
tank liquor
tank locomotive
tank meter
tank nipple
tank rivet
tank runner
tap line
tap out the rhythm
tap rate
tap reamer
tap rivet
tap screw
tap shoe
tap tool
tap water
tap wrench
tap-dance
tap-danced
tap-dancer
tap-dancing
tap-hole
tap-house
tap-lash
tap-off
tap-pickle
tap-room
tap-root
tap-tap
tap-tap-tap
tapa cloth
tape cartridge
tape cassette
tape deck
tape fern
tape grass
tape machine
tape measure
tape memory
tape needle
tape player
tape price
tape reader
tape reading
tape recorder
tape recording
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying
taped program
taped show
taper drill
taper file
taper gauge
taper jack
taper mandrel
taper off
taper pin
taper pipe thread
taper reamer
taper reducer sleeve
taper tap
taper to a point
taper tool
taper-bored
taper-fashion
taper-fashion arrow
taper-grown
taper-headed
taper-lighted
taper-limbed
taper-molded
taper-pointed
tapered-in
tapestry Brussels
tapestry beetle
tapestry carpet
tapestry glass
tapestry maker
tapestry making
tapestry moth
tapestry needle
tapestry painting
tapestry stitch
tapestry weaver
tapestry weaving
tapestry work
tapestry-covered
tapestry-worked
tapestry-woven
tapeworm plant
taping arrow
taping pin	tapioca plant
tapioca pudding
tapioca snow
tapioca-plant
tapir mouth	
tapis vert
tapped joint
tapper tap
tapper-out
tappet motion
tappet rod
tappet wrench		
tapping chuck	
tapping clay
tapping drill	
tapping hole
tapping key
tapping screw
tappit hen	
tappit-hen
tapsal-teerie	
tapsie-teerie
tar acid	
tar and feather	
tar baby	
tar base		
tar boy	
tar bucket		
tar camphor		
tar cancer		
tar concrete		
tar distillate		
tar distiller		
tar drum		
tar kettle		
tar macadam		
tar number		
tar oil		
tar on		
tar paper		
tar pavior		
tar pool		
tar putty		
tar sand		
tar soap		
tar spot		
tar sprayer		
tar still		
tar water		
tar well		
tar-and-feathering
tar-barrel
tar-bedaubed
tar-bind
tar-black
tar-boiling
tar-brand
tar-brush
tar-burning
tar-clotted
tar-coal
tar-dipped
tar-heating
tar-laid
tar-paint
tar-paved
tar-removing
tar-roofed
tar-scented
tar-sealed
tar-soaked
tar-spray
tar-water
tara fern
tarage table
tarantula hawk
tardive dyskinesia
tardy epilepsy
tardy-gaited
tardy-moving
tardy-rising	
tare an ages
tare anouns
tare anounty
tare grass
tare room
tare vetch
target arrow
target bass
target boat
target date
target day
target frame
target image
target lamp
target language
target man
target meeting
target missile
target planet
target practice
target range
target rifle
target rod
target shaft
target spot
target values
target-shy
target-tower
target-tug
tariff duty
tariff law
tariff maker
tariff making
tariff reform
tariff reformer
tariff treaty
tariff wall
tariff-born
tariff-bound
tariff-fed
tariff-protected
tariff-raised
tariff-raising
tariff-reform
tariff-regulating
tariff-ridden
tariff-tinkering
tariff-wise
tarn-brown
tarpaulin muster
tarpaulin-covered
tarpaulin-lined	arragon oil
tarragon vinegar
tarred with the same brush	arry for	arry-breeks	arry-fingered	arry-jacket	arrying irons
tarso-
tarso-metatarsal	arso-metatarsus	arso-orbital	art up	tartan velvet
tatou peba
tattie bogle
tattie lifting
tattle on
tattletale gray
tattoo mark
tatty-peelin
tau cross
tau staff
tau-meson
tau-saghyz
tau-topped
taunt ship
taunt with
taunt-masted
taunt-rigged
taupe brown
taupe-rose
tauro-
taurocholic acid
taut as a bowstring
taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted
taw line
tawdry lace	awed leather	awny owl	awny port	awny-brown	awny-coated	awny-colored	awny-faced	awny-gold	awny-gray	awny-green	awny-haired	awny-moor	awny-olive	awny-skinned	awny-skinned	awny-tanned	awny-tainted	awny-visaged	awny-whiskered
tawny-yellow
tax anticipation note
tax assessor
tax avoidance
tax base
tax benefit
tax bond
tax book
tax cart
tax certificate
tax collecting
tax collector
tax collectors
tax credit
tax deduction
tax deed
tax dodger
tax dodging
tax evader
tax evasion
tax exemption
tax farmer
tax haven
tax layer
tax levy
tax lien
tax list
tax money
tax rate
tax receiver
tax return
tax roll
tax sale
tax shelter
tax stamp
tax stamp n
tax structure
tax taker
tax the memory
tax title
tax with
tax withholding
tax write-off
tax your energies
tax yourself
tax-
tax-born
tax-bought
tax-burdened
tax-cart
tax-deductible
tax-dodging
tax-exempt
tax-exempt bond
tax-exempt status
tax-free
tax-free bond
tax-gatherer
tax-laden
tax-levying
tax-ridden
tax-supported	axable goods	axable income	axable land	axable property	
taxi dancer	
taxi driver
taxi horn
taxi radar
taxi strip
taxi truck
taxi-bordered	
taxi-cab	
taximeter cab
tch tch
tcheck out
te deum
te igitur	
te-hee
te-heed
te-heing	
tea bag	
tea ball
tea bell
tea biscuit
tea blender
tea blight
tea borer	
tea bread
tea break
tea broom
tea caddy
tea cake
tea can
tea canister
tea cart
tea ceremony
tea checker
tea chest
tea clipper
tea cloth
tea coooper
tea cosy
tea cozy
tea dance
tea drinker
tea drunkard
tea egg
tea family
tea fight
tea fighting
tea garden
tea gardener
tea girl
tea gown
tea green
tea hound
tea hour
tea house
tea infuser
tea kettle broth
tea kitchen
tea lead
tea leaf
tea maid
tea maker
tea meeting
tea mite
tea mixer
tea mosquito
tea oil
tea oil tree
tea olive
tea packer
tea party
tea percolator
tea plant
tea planter
tea planting
tea plate
tea rose
tea sampler
tea scrub
tea service
tea set
tea shop
tea sifter
tea strainer
tea table
tea tasting
tea towel
tea tray
tea tree
tea trolley
tea urn
tea wagon
tea weigher
tea-blending
tea-chest
tea-clipper
tea-colored
tea-covered
tea-cup
tea-garden
tea-gardened
tea-growing
tea-inspired
tea-leaf
tea-leaved
tea-leaves
tea-loving
tea-maker
tea-mixing
tea-of-heaven
tea-packaging
tea-party
tea-plant
tea-planter
tea-pot
tea-producing
tea-rose
tea-rose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teagle post
teak-brown
teak-built
teak-complexioned
teak-lined
teak-producing
teal blue
teal duck
teal flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear-blinded
tear-bottle
tear-bright
tear-commixed
tear-compelling
tear-composed
tear-creating
tear-damped
tear-derived
tear-dewed
tear-dimmed
tear-distained
tear-distilling
tear-dropped
tear-drowned
tear-eased
tear-embarrassed
tear-expressed
tear-falling
tear-filled
tear-forced
tear-fraught
tear-freshened
tear-gas
tear-gas bomb
tear-gas grenade
tear-gas gun
tear-gassed
tear-gassing
tear-glistening
tear-imaged
tear-jerker
tear-jerking
tear-kissed
tear-lamenting
tear-lined
tear-marked
tear-melted
tear-mirrored
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
 tear-persuaded
 tear-phrased
 tear-pictured
 tear-pitying
 tear-plagued
 tear-pouring
 tear-practiced
 tear-procured
 tear-protested
 tear-provoking
 tear-purchased
 tear-quick
 tear-raining
 tear-reconciled
 tear-regretted
 tear-resented
 tear-revealed
 tear-reviving
 tear-salt
 tear-scoring
 tear-sealed
 tear-shaped
 tear-shedding
 tear-shot
 tear-stained
 tear-stubbed
 tear-swollen
 tear-thirsty
 tear-washed
 tear-wet
 tear-wiping
 tear-worn
 tear-wrung
 tearful eyes
 tearing down
 tearing out
 tearing passion
 tearing up root and branch
 tease out
 tease tenon
 tease up
 teasel clipper
 teasel cutter
 teasel family
 teasel frame
 teasel gourd
 teasel grower
teasel merchant
teasel packer
teasel sorter
tearer artist
tearer curtain
teat cup
teeze tenon
technical adviser
technical brilliance
technical college
technical education
technical expert
technical flaw
technical jargon
technical knockout
technical know-how
technical knowledge
technical mastery
technical oil
technical school
technical sergeant
technical skill
technical term
technical training institute
technical writer
technical writing
technically superb
otechnico-
techno-
technological institute
technological revolution
technological school
technological unemployment
technological warfare
tecno-
tectorial membrane
teddy bear
teddy boy
teddy girl
teddy-bear	edious work
tedium-proof
tee bar
tee beam
tee burial
tee iron
tee joint
tee off
tee plate
tee rail
tee shirt
tee slot
tee square
tee-bulb
tee-hee
tee-hole
tee-name
tee-shirt
teed off
teing ground
teel oil
tee over
tee with
teeing imagination
teeing loins
teeing rain
teeing womb
teen age
teen-age
teen-aged
teen-ager
teenie-weenie
t eensie-weensie
teesy-weensy
teentsy-weentsy
teeny-weeny
tee-t-totter
tee-tottering
tee-tering-board
tee-tery-bender
tee ridge
tee-chemyting
tee-edging
tee-grinding
tee-ing ring
tee-ing troubles
tee-ing tree
tee-nd boll
tel-
tele-
tele-action
tele-iconograph
telechron clock
telegraph agency
telegraph bar
telegraph block
telegraph blue
telegraph board
telegraph box
telegraph bracket
telegraph bug
telegraph buoy
telegraph cable
telegraph clerk
telegraph clock
telegraph coil
telegraph connector
telegraph editor
telegraph form
telegraph hook
telegraph inspector
telegraph instrument
telegraph insulator
telegraph jack
telegraph key
telegraph laborer
telegraph line
telegraph lineman
telegraph mechanic
telegraph messenger
telegraph operator
telegraph plant
telegraph pole
telegraph protector
telegraph recorder
telegraph recorders
telegraph relay
telegraph repeater
telegraph rope
telegraph sounder
telegraph superintendent
telegraph switchboard
telegraph tape
telegraph transmitter
telegraph tubing
telegraph wire
telegraph wireman
teleo-
teleological argument
teleological proof
telepathic dream
telepathic hallucination
telepathic transmission
telephone amplifier
telephone area
telephone arm
telephone attendant
telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
telephone call
telephone case
telephone cell
telephone closet
telephone coil
telephone condenser
telephone connector
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
telephone selector
telephone set
telephone stand
telephone supervisor
telephone support
telephone switch
telephone switchboard
telephone table
telephone tax
telephone terminal
telephone tester
telephone transmitter
telephone wire
telephone wireman
telephonic engineer
telephoto lens
teleprinter exchange
telescope antenna
telescope bag
telecope box
telecope chimney
telecope door
telecope eye
telecope finder
telecope fish
telecope fly
telecope jack
telecope joint
telecope lens
telecope screw
telecope shell
telecope sight
telecope stack
telecope table
telecope tube
telecope word
telescopic camera
telescopic sight
telestial kingdom
television audience
television broadcast
television camera
television channel
television drama
television engineer
television mast
television play
television radar air navigation
television receiver
television receiver parts
television reception
television relay
television set
television show
television station
television studio
television technician
television transmission
television transmitter
television transmitter parts
television tube
television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
tell off
tell on
tell once and for all
tell one thing from another
tell secrets
tell tales
tell tales out of school
tell the future
tell the meaning of
tell the news
tell the truth
tell true
tell where to get off
tell you a secret
tell you to your face
tell your fortune
tell yourself
tell-tale
tell-truth
teller of tales
teller's check
teller-out
telling of beads
telltale compass
telltale sign
tellur-
telluric acid
tellurium glance
telo-
telome theory
telpher carrier
telpher line
telpher railway
telpher ropeway	
temper color
temper pin
temper screw
temper tantrum	
temper-spoiling
temper-trying	
temper-wearing
tempera painting
temperance drink
temperance hotel
temperance movement
temperantia salver
temperantia tray
temperate zone
temperature coefficient
temperature control
temperature curve
temperature gradient
temperature relay
temperature sensation
temperature sense
temperature sensor
temperature signal
temperature spot
temperature wind rose
temperature-humidity index
tempered glass
tempered safety glass
tempered semitone
tempest in a teacup
tempest in a teapot
tempest-bearing
tempest-beaten
tempest-blown
tempest-born
tempest-clear
tempest-driven
tempest-flung
tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-tost
tempest-troubled
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
tempo mark
tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
temporary expedient
temporary life annuity
temporary lodger
temporary measure
tempro-
temps lie
tempt Providence
tempt fortune
tempt the appetite
temptation-proof
tempus edax rerum
tempus fugit
ten best-dressed
ten cents
ten commandments
ten million
ten o'clock
ten strike
ten thousand
ten to one
ten-
ten-a-penny
ten-acre
ten-acred
ten-armed
ten-barreled
ten-bore
ten-cell
ten-cent
ten-cent store
ten-coupled
ten-course
ten-cylindered
ten-day
ten-day fern
ten-dollar
ten-dollar bill
ten-dollar gold piece
ten-eighty
ten-fingered
ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
tender rocket
tender spot
tender susceptibilities
tender thanks
tender your compliments
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tender-faced
tender-footed
tender-footedness
tender-foreheaded
tender-handed
tender-hearted
tender-heartedly
tender-hefted
tender-hoofed
tender-hued
tender-looking
tender-minded
tender-mouthed
tender-natured
tender-nosed
tender-personed
tender-rooted
tender-shelled
tender-sided
tender-skinned
tender-souled
tender-taken
tender-tempered
tender-witted
tenderloin steak	
tending to
tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
tene-bricose
tenement building
tenement district
tenement house
tenement of clay
tennessee walking horse
tennis ball
tennis bum
tennis court
tennis elbow
tennis marker
tennis play
tennis player
tennis playing
tennis racket
tennis shoe
tennis shoes
tennis-ball
tennis-court
tennis-play
ten-
tenon auger
tenon saw
tenon tooth
tenonto-
tenor behind
tenor clef
tenor covering
tenor drum
tenor horn
tenor octave
tenor tuba
tenor viol
tenor violin
tenpenny nail
tenpin bowling
tense auxiliary
tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered	
tensile strength
tension carriage
tension element
tension fatigue
tension line
tension pulley
tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
tent-shaped
tent-sheltered
tent-stitch
tentaculi-
tentative approach
tentative contact
tentative examination
tentative explanation
tentative method
tentative poke
tentatively suggest
tented field	
tenter-hook
tenterhook willey
tenth muse
tenth's place
tenth-rate
tenui-
tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
ter-
ter-equivalent
ter-sacred
ter-sanctus
tera-
teraihat
terat-
terbium metal
terbium oxide
tercelgente
tercel-gentle
terebic acid
terebinic acid
terebinth tree
terephthalic acid
tereti-
tergo-
termattendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
term-time
terminable annuity
terminal case
terminal date
terminal figure
terminal leave
terminal market
terminal moraine
terminal point
terminal speed
terminal velocity
terminate the account
terminating decimal
terminating plan
terminus a quo
terminus ad quem
termite-proof
terms of trade
terramara culture
terrapin paws
terrapin scale
terrassee green
terre verte
terre-a-terreishly
terre-tenant
terre-verte
terrestrial globe
terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
terrible thing
territorial court
territorial defense army
territorial division
territorial militia
territorial reserves
territorial system
territorial waters
territory wool
terror tactics
terror-bearing
terror-breathing
terror-breeding
terror-bringing
terror-crazed
terror-driven
terror-fleet
terror-fraught
terror-giving
terror-haunted
terror-inspiring
terror-lessening
terror-mingled
terror-preaching
terror-ridden
terror-riven
terror-shaken
terror-smitten
terror-stirring
terror-stricken
terror-striking
terror-struck
terror-threatened
terror-troubled
terror-wakened
test pattern
test pilot
test pit
test rocket
test room
test run
test solution
test tube
test tubing
test type
test-ban
test-bed
test-tube
test-tube baby
test-tubeful
testaceo-
testament dative
tester bed
testify against
testimonial banquet
testimonial dinner
testimony meeting
testing area
testing device
testing engineer
testing engineering
testing equipment
testing ground
testing sample
testing terminal
tetano-
tetanus bacillus
tetanus toxin
tetanus toxoid
tetarto-
tetbrothalein sodium
tete a tete
tete de veau	
tete-a-tete
tete-beche
tether-devil
tetiothalein sodium
tetra-
tetra-icosane
tetrad difference
tetrade cyl alcohol
tetraethyl lead
tetraethyl pyrophosphate
tetraethylthiuram disulfide
tetragonal system
tetragonal trisoctahedron
tetrahedral kite
tetrahedrite type
tetrahydrol cannabinol
tetrahydroxyadipic acid
tetraakis-hexahedron
tetralogy of Fallot
tetramethyl base
tetrode transistor
tetter berry
tetter-berry
teuto-
tew iron
texas deck
texas fever
texas independence day
texas leaguer
texas ranger
texas tower
text blindness
text edition
text hand
text letter
text pen
text title
text writer
text-book
text-hand
text-letter
text-writer
textbook editor
textile designer
textile engineer
textile engineering
textile fabric
textile soap
textual critic
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thalloid shoot
thallassic sulfate
thaloid cell
thanat/o-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-ma'am
thanks be to God
thanks to
teaching day
that bald sexton Time
that be
that being so
that being the case
that buttons it up
that dreamless sleep
that felt sergeant
that flattering unction
that goes without saying
that good night
that grim ferryman
that inward eye
that is
that is evident
that is so
that is to be
that is to say
that leaps to the eye
that old bald cheater
that old common arbitrator
that one
that or nothing
that or the other
that orbited continent
that orbited maiden
that time
that unwritten law
that wants discourse of reason
that way
that will be
that's final
that's for sure
that's it
that's just it
that's just the thing
that's right
that's that
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Confessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Dickens
the Digest
the Dirae
the Directory
the Divine
the Divine Liturgy
the Divinity
the Dog Star
the Dolphin
the Dominion
the Door
the Dorado Fish
the Dove
the Doxology
the Dragon
the Eagle
the East
the Eddas
the Eight
the Elevation
the Enemy
the Enlightenment
the Erinyes
the Essence of the Universe
the Establishment
the Eternal
the Eternal Being
the Eucharist
the Eumenides
the Everlasting
the Everlasting Father
the Evil One
the Evil Spirit
the Exchange
the Exile
the Exodus
the Fall
the Father
the Father of Evil
the Father of Lies
the Fathers
the Fens
the Fiend
the First Cause
the Fishes
the Fleet
the Flood
the Fly
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreath
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum’s rush
the bunch
the burning tapers of the sky
the bush
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
the cud
the cunning of the serpent
the cup
the cup that cheers
the curse
the curse of Eve
the daily round
the damned
the dance
the danger is past
the dangerous age
the dansant
the dark
the dark sanctuary of incapacity
the data
the dawn of day
the dawn's early light
the day after tomorrow
the days of our years
the days that are no more
the dead
the dead Summer's soul
the deaf
the deal is off
the deceased
the deep
the deep blue sea
the deep sea
the deeps
the defensive
the defunct
the departed
the depths
the desk
the details
the deuce you say
the devil and all
the devil and the deep blue sea
the devil to pay
the devil you say
the devourer of things
the die is cast
the dim past
the direct opposite
the disadvantaged
the dismal science
the dismals
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the few
the field
the fights
the first of painters
the first philosophy
the first theology
the flesh
the fleshly
the flip side
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the haves
the hawk
the hay
the health of the soul
the hearing of deaf actions
the heebie-jeebies
the height of your ambition
the helm
the help
the herd
the hereafter
the hills
the hoi polloi
the hole
the holy
the holy of holies
the honest truth
the honest-to-God truth
the honey-heavy dew of slumber
the horde
the horrors
the hot seat
the how
the humanities
the hump
the hunted
the hurdles
the idea
the illimitable
the image of life
the immortals
the impossible
the in thing
the incalculable
the individual
the ineffable
the inenarrable
the inexpressible
the infirm
the information
the ingroup
the inner circle
the ins
the intelligent
the intense inane
the interests
the intrinsic truth
the invisible
the iron entering the soul
the irrevocable Past
the jackboot
the jaundice of the soul
the jerks
the jig is up
the jimjams
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the know
the knowing
the koine
the lam
the lambent easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man’s Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quick and the dead
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
the special
the specific
the specifics
the speech of angels
the spit and image of
the spoken word
the sport of fortune
the sport of kings
the squirrel cage
the stage
the stake
the state of affairs
the status quo
the stern truth
the sticks
the still
the stork
the storm blown over
the storm has blown over
the story
the straight and narrow
the straight of it
the straight truth
the strange
the string
the strong
the strong arm
the stuff
the subject is closed
the sublime
the sublime style
the suit of night
the summer of your youth
the summit
the supernatural
the supersensible
the supreme fiction
the suspicion of a suspicion
the sweat of your brow
the sweet by-and-by
the sweeter banquet of the mind
the sword
the syndicate
the tag-rag people
the temporal
the theater
the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the unfamiliar
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the wa'fry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word ‘go’
the works
the world
the world above
the world of commerce
the world of trade
the world of waters wild
the world over
the worldly
the worse for
the worse for liquor
the worse for wear
the worst
the worst of all evils
the worst way
the wretched of the earth
the written word
the wrong side of forty
the wrong way
the years that are past
the yellow leaf
the-
theater lighting
theater man
theater of cruelty
theater of operations
theater of the absurd
theater of war
theater part
theater world
theater, the
theater-craft
theater-in-the-round
theatre of cruelty
theatre of the absurd
theatre stall
theatre-in-the-round
theatrical agent
theatrical makeup
theatrical performance
theatrical season
teatro-
theeo-
theezan tea
theft insurance
theft-boot
thegn-born
thegn-right
thematic apperception test
thematic development
thematic map
theme and variations
theme park
theme song
then and there
then as previously
then-a-days
then-clause
thence-from
theo-
theobroma oil
theological hermeneutics
theological school
theological seminary
theological student
theological virtue
theological virtues
theologico-
theologo-
theology of crisis
theophylline ethylenediamine
theorem of the mean
theoretic atom
theoretic atoms
theoretical arithmetic
theoretical basis
theoretical chemistry
theoretical construct
theoretical economics
theoretical justification
theoretical linguistics
theoretical mechanics
theoretical physics
theoretical specific impulse
theoretical structure
time of beauty
time of being
time of equations
time of evolution
time of games
time of history
time of knowledge

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theory of probability
theory of relativity
theory-blind
theory-blinded
theory-building
theory-making
theory-spinning
therapeutic abortion
therapeutic index
there and then
there is no help for it
there is no helping it
there is no question
there is not a shadow of doubt
there is nothing more to be said
there is reason to believe
there's no place like home
there's no two ways about it
therefore because of this
therefore on account of this
therio-
therm-
thermal ammeter
thermal barrier
thermal conductivity
thermal cracking
thermal detector
thermal detectors
thermal diffusion
thermal efficiency
thermal engine
thermal equator
thermal equilibrium
thermal neutron
thermal radiation
thermal reactor
thermal shock
thermal spring
thermal timing relay
thermal unit
thermic fever
thermionic cathode
thermionic current
thermionic emission
thermionic grid emission
thermionic instrument
thermionic tube
thermionic tube circuit
thermionic valve
thermite process
thermo development
thermo-
thermo-inhibitory
thermo-unstable
thermocouple instrument
thermocouple meter
thermocouple pyrometer
thermodynamic equilibrium
thermodynamic potential
thermodynamic temperature
thermodynamics pot
thermoelectric couple
thermoelectric current
thermoelectric effect
thermoelectric thermometer
thermoelectromotive force
thermometer pointer
thermometric titration
thermonuclear arsenal
thermonuclear attack
thermonuclear bomb
thermonuclear explosion
thermonuclear fusion
thermonuclear power
thermonuclear reaction
thermonuclear warhead
thermonuclear weapons
thermos bottle
thermos flask
thermosetting plastic
thermo-
thesaurus dictionary
these days
thesis dramatist
thesis novel
thesis novelist
thesis play
thesis playwright
theta function
thi-
thiacetic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick-eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girthed
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-spraying
thick-sprung
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves' cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eye
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-belly
thin-bladed
thin-blooded
thin-blower
thin-bodied
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-feathered
thin-film
thin-flanked
thin-flesh
thin-flowing
thin-frozen
thin-fruit
thin-grown
thin-hair
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippiness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
think worlds of
think your head off
think your shit doesn't stink
think-so
think-tank
thinking aloud
thinking cap
thinking machine
thinking of it later
thinking out
thinking over
thinking power
thinking shop
thinking through
thinned-out
thinning agent
thio acid
thio ether
thio salt
thio-
thio-ether
thioacetic acid
thioallyl ether
thioantimonic acid
thioarsenic acid
thioarsenious acid
thiocyan group
thiocyanic acid
thiocyan group
thiocyan radical
thioethyl alcohol
thioindigo red B
thioindigo red b
thiol-
thion-
thionic acid
thiopental sodium
thiopentone sodium
thiophosphoric acid
thiosulfuric acid
thiosulphuric acid
third astute
third base
third baseman
third best
third class
third degree
third dimension
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
third part
third party
third party procedure
third person
third position
third rail
third rank
third reading
third sex
third stomach
third stream
third string
third stringer
third ventricle
third world
third-class
third-class mail
third-degree
third-degree burn
third-degreed
third-degreing
third-estate
third-force
third-hand
third-order
third-rail
third-rate
third-rateness
third-rater
third-string
third-world
thirst after
thirst country
thirst for
thirst for knowledge
thirst quencher
thirst-abating
thirst-allaying
thirst-creating
thirst-inducing
thirst-maddened
thirst-quenching
thirst-raising
thirst-scorched
thirst-tormented
thirsty for knowledge
thirsty soul
thirteen-day
thirteen-inch
thirteen-lined
thirteen-lined gopher
thirteen-pence halfpenny
thirteen-ring ed
thirteen-square
thirteen-stone
thirteen-story
thirteenth chord
thirty-acre
thirty-day
thirty-eight
thirty-eighth
thirty-fifth
thirty-first
thirty-five
thirty-foot
thirty-four
thirty-fourth
thirty-gunner
thirty-hour
thirty-inch
thirty-knot
thirty-mile
thirty-nine
thirty-ninth
thirty-one
thirty-pound
thirty-second
thirty-second note
thirty-second rest
thirty-seven
thirty-seventh
thirty-six
thirty-sixth
thirty-third
thirty-thirty
thirty-three
thirty-ton
thirty-two
thirty-twomo
thirty-twomos
thirty-word
thirty-yard
thirty-year
this AM
this PM
this aft
this afternoon
this and no other
this and that
this bank and shoal of time
this being so
this big
this day
this day and age
this goodly frame
this hour
this instant
this man's army
this minute
this moment
this morning
this night
this one
this pendent world
this point
this quintessence of dust
this scepter'd isle
this seat of Mars
this second
this single
this size
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thistle tube
thistle-down
thistle-finch
thiuram disulphide
thompson submachine gun
thomsen's disease
thong leather
thong seal
thoraci-
thoracic duct
thoracic surgery
thoraco-
thoracolumbar nervous system
thorium dioxide
thorium emanation
thorium nitrate
thorium oxide
thorium series
thorn apple
thorn broom
thorn crown
thorn devil
thorn forest
thorn hedge
thorn in the flesh
thorn in the side
thorn in your flesh
thorn letter
thorn locust
thorn oyster
thorn palm
thorn plum
thorn poppy
thorn tree
thorn-apple
thorn-bearing
thorn-bound
thorn-bush
thorn-covered
thorn-crowned
thorn-encompassed
thorn-headed
thorn-hedge
thorn-hedged
thorn-marked
thorn-pricked
thorn-resisting
thorn-set
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twining
thoro-
thorough bass
thorough brace
thorough light
thorough stone
thorough-
thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
thorough-pin
thorough-ripe
thorough-shot
thorough-stain
thorough-stitch
thou breath of Autumn’s being
thou deep and dark blue ocean
thou scarlet sin
thou unrelenting past
thou weed
thou-shalt-not
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
thought transference
thought writing
thought-abhorring
thought-bewildered
thought-burdened
thought-challenging
thought-concealing
thought-conjuring
thought-depressed
thought-exceeding
thought-executing
thought-fed
thought-fixed
thought-free
thought-giving
thought-hating
thought-haunted
thought-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
thought-involving
thought-jaded
thought-kindled
thought-laden
thought-lighted
thought-mad
thought-mastered
thought-meriting
thought-moving
thought-numb
thought-out
thought-outraging
thought-pained
thought-peopled
thought-poisoned
thought-pressed
thought-provoking
thought-read
thought-reading
thought-reviving
thought-ridden
thought-saving
thought-set
thought-shaming
thought-sounding
thought-stirring
thought-straining
thought-swift
thought-tight
thought-tinted
thought-tracing
thought-unsounded
thought-winged
thought-working
thought-worn
thought-worthy
thousand dollars
thousand island dressing
thousand million
thousand-acre
thousand-dollar
thousand-dollar bill
thousand-eyed
thousand-footed
thousand-guinea
thousand-handed
thousand-headed
thousand-headed kale
thousand-hued
thousand-jacket
thousand-leaf
thousand-legged
thousand-legger
thousand-legs
thousand-mile
thousand-pound
thousand-round
thousand-sided
thousand-souled
thousand-voiced
thousand-year
thousandth’s place
thraco-phrygian
thrall-less
thread-legged bug
thread-lettered
thread-line fishing
thread-marked
thread-measuring
thread-mercerizing
thread-milling
thread-needle
thread-paper
thread-shaped
thread-the-needle
thread-waisted
thread-winding
thread-worn
threaded glass
threader-up
threading lathe
threading machine
threading tool
threadneedle street
threat to health
threatening course
three R’s
three Rs
three balls
three birds
three estates
three hours
three hundred
three o’ cat
three o’clock
three of a kind
three old cat
three parts
three percent
three r’s
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three-eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leafed
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouthed
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
three-pile
three-piled
three-piler
three-pint
three-plait
three-ply
three-point
three-point landing
three-point perspective
three-point problem
three-point switch
three-point turn
three-pointed
three-pointing
three-position
three-poster
three-pound
three-pound piece
three-pounder
three-power receiver
three-pronged
three-quality
three-quart
three-quarter
three-quarter back
three-quarter bed
three-quarter binding
three-quarter nelson
three-quarter time
three-quarter tone
three-quarter turn stair
three-quarter vamp
three-quarter-bred
three-quarters nelson
three-rail
three-ranked
three-reel
three-ribbed
three-ridge
three-ring
three-ring circus
three-ringed
three-ringed circus
three-roll
three-room
three-roomed
three-row
three-rowed
three-sail
three-salt
three-scene
three-second
three-seeded
three-shanked
three-shaped
three-shilling
three-sided
three-sidedness
three-sixty
three-soled
three-space
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-striped
three-striper
three-styled
three-suited
three-syllable
three-syllable law
three-syllabled
three-tailed
three-thorned
three-thorned acacia
three-thread
three-throw
three-tie
three-tie joint
three-tier
three-tiered
three-time
three-tined
three-toed
three-toed woodpecker
three-toes
three-ton
three-tongued
three-toothed
three-toothed cinquefoil
three-torque
three-tripod
three-up
three-valued
three-valved
three-volume
three-way
three-way receiver
three-way spread
three-way switch
three-wayed
three-week
three-weekly
three-wheeled
three-wheeler
three-winged
three-wire
three-wire cable
three-wire generator
three-wire system
three-wive
three-woods
three-wormed
three-year
three-year-old
three-years
threefold block
threefold purchase
threefold tackle
threepenny bit
threepenny piece
threescore and ten
threescore years and ten
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thrifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
throes of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ether
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off
throw off all disguise
throw off balance
throw off the scent
throw off your guard
throw on
throw on one's beam end
throw on paper
throw on the junk heap
throw on the market
throw on your beam ends
throw open
throw open to
throw out
throw out a feeler
throw out a hint
throw out a smoke screen
throw out of gear
throw out of joint
throw out of order
throw out on your ear
throw out the window
throw out your chest
throw over
throw overboard
throw rug
throw stick
throw stones at
throw the book at
throw the bull
throw the first stone
throw the spotlight on
throw to the dogs
throw together
throw under the jailhouse
throw up
throw up the cards
throw up your hands
throw your arms around
throw your back at
throw your hat in the ring
throw your money away
throw your weight around
throw your weight into the scale
throw yourself at the feet of
throw yourself at the head of
throw yourself into
throw yourself into the arms of
throw yourself on
throw yourself on your knees
throw-
throw-back
throw-crook
throw-forward
throw-in
throw-off
throw-on
throw-over
throw-stick
throwing away
throwing downstairs
throwing engine
throwing iron
throwing knife
throwing net
throwing open
throwing out
throwing overboard
throwing power
throwing stick
throwing your hat in the ring
throwing-in
throwing-stick
thrown away
thrown for a loss
thrown into the shade
thrown over
thrown silk
thrown together
thrum-eyed
thrush blackbird
thrush brown
thrush fungus
thrush lichen
thrush nightingale
thrush tit
thrush-breast heart
thrust and parry
thrust aside
thrust at
thrust augmentation
thrust augmenter
thrust back
thrust bearing
thrust coefficient
thrust deduction
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb ring
thumb rule
thumb through
thumb turn
thumb your nose
thumb your nose at
thumb your way
thumb-and-finger
thumb-fingered
thumb-index
thumb-kissing
thumb-made
thumb-mark
thumb-marked
thumb-nail
thumb-ring
thumb-rope
thumb-screw
thumb-shaped
thumb-stall
thumb-sucker
thumb-sucking
thumb-worn
thumbing a ride
thumbnail sketch
thumbs down
thumbs up
thumbs-down
thumbs-up
thump in
thump the tub for
thump-cushion
thumped-in landing
thunder against
thunder along
thunder and lightning
thunder at the top of your voice
thunder ax
thunder forth
thunder god
thunder gods
thunder mug
thunder of applause
thunder planet
thunder plant
thunder pumper
thunder rod
thunder snake
thunder spirit
thunder tube
thunder-armed
thunder-baffled
thunder-bearer
thunder-blast
thunder-breathing
thunder-charged
thunder-clap
thunder-cloud
thunder-darting
thunder-delighting
thunder-dirt
thunder-fearless
thunder-footed
thunder-forging
thunder-fraught
thunder-free
thunder-girt
thunder-god
thunder-guiding
thunder-gust
thunder-hid
thunder-laden
thunder-maned
thunder-rejoicing
thunder-riven
thunder-ruling
thunder-scarred
thunder-scathed
thunder-shod
thunder-slain
thunder-smitten
thunder-splintered
thunder-split
thunder-splitten
thunder-stone
thunder-storm
thunder-teeming
thunder-throwing
thunder-thwarted
thunder-tipped
thunder-tongued
thunder-voiced
thunder-wielding
thunderstorm cirrus
thus and so
thus and thus
thus far
thus far and no farther
thwacking frame
thwacking horse
thwacking knife
thwacking stool
thwaite shad
thwart motion
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymic acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyrd-
thyro-
thyroid gland
thyroid-stimulating hormone
ti palm
ti tree
tib-cat
tibetan terrier
tibeto-burman
tibio-
tic douloureux
tic-polonga
tic-tac-toe
tick bird
tick clover
tick doloru
tick farcy
tick fever
tick off
tick over
tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
ticket day
ticket gate
ticket holder
ticket maker
ticket night
ticket of admission
ticket of leave
ticket office
ticket porter
ticket printer
ticket punch
ticket rack
ticket scalper
ticket taker
ticket varnisher
ticket window
ticket writer
ticket-canceling
ticket-counting
ticket-dating
ticket-making
ticket-of-leave
ticket-of-leave man
ticket-of-leaver
ticket-porter
ticket-printing
ticket-registering
ticket-selling
ticket-vending
tickets of leave
tickety-boo
ticking work
tickle grass
tickle in the palm
tickle pink
tickle the fancy
tickle the palate
tickle the palm
tickle to death
tickle your fancy
tickle-footed
tickle-headed
tickle-heeled
tickle-toby
tickle-tongued
tickled pink
tickled to death
tickled with a straw
tickler coil
tickler file
ticklish business
ticklish issue
ticklish spot
tickly-benders
tickseed sunflower
tickettack man
tidal amplitude
tidal basin
tidal bench mark
tidal bore
tidal current
tidal current chart
tidal datum
tidal flat
tidal flats
tidal flood
tidal flow
tidal light
tidal pond
tidal pool
tidal range
tidal stream
tidal wave
tide boat
tide chart
tide crack
tide day
tide gage
tide gate
tide gauge
tide hole
tide lock
tide mill
tide of time
tide over
tide pole
tide pool
tide predictor
tide race
tide register
tide rip
tide staff
tide table
tide wave
tide way
tide wheel
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-tossed
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up
tie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-on
tie-out
tie-plater
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooperator
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker
tiglic acid
til oil
til seed
til tree
tile drain
tile hook
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
 till the soil
 till then
 till time runs out
 till time stops
 till you are blue in the face
 till you’re blue in the face
tiller bow
tiller chains
tiller lines
tiller of the soil
tiller rope
tilleul green
tilly-fally
tilly-vally	
tilt angle
tilt at
tilt at windmills
tilt boat
tilt bonnet
tilt hammer
tilt mill
tilt roof
tilt steel
tilt with	
tilt-boat
tilt-hammer	
tilt-top table	
tilt-up	
tilt-yard
tilting chest
tilting conveyor
tilting fillet
tilting ground
tilting hammer
tilting helmet
tilting level
tilting yard	
tim-whiskey
timbale case
timbale iron
timber bamboo
timber bar
timber beetle
timber borer
timber contractor
timber cruiser
timber cutter
timber estimating
timber estimator
timber faller
timber forest
timber frame
timber grapple
timber grouse
timber hitch
timber jumper
timber knot
timber leader
timber limit
timber line
timber loader
timber mare
timber marker
timber measurer
timber mill
timber preserver
timber rattlesnake
timber right
timber rot
timber scribe
timber shifter
timber toe
timber topper
timber topping
timber tower
timber tree
timber unloader
timber wheels
timber wolf
timber worm
timber yard
timber-boring
timber-built
timber-carrying
timber-ceilinged
timber-covered
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
time draft
time drawing on
time enough
time error
time exposure
time fire
time flies
time fuse
time globe
time gun
time hanging on your hands
time hit
time immemorial
time in
time interval
time just ahead
time killer
time lag
time lamp
time lead
time limit
time loan
time lock
time machine
time marches on
time measurement
time money
time note
time of day
time of life
time of year
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time quadrature
time rating
time recorder
time runs out
time scale
time schedule
time selling
time sense
time series
time-consuming
time-delay relay
time-deluding
time-discolored
time-eaten
time-economizing
time-enduring
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
time-keeper
time-killing
time-lag
time-lapse
time-lapse photography
time-lasting
time-limit
time-marked
time-measuring
time-mellowed
time-motion study
time-noting
time-out
time-pressed
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing
time-shrouded
time-space
time-spirit
time-table
time-taught
time-temperature
time-temperature curve
time-tested
time-tried
time-wasted
time-wasting
time-wearied
time-white
time-withered
time-worn
timeo Danaos et dona ferentes
times of old
times of yore
times past
times without number
times, the
timing chain
timing gears
timing pulse
timing screw
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
tin kettle
tin liquor
tin lizzie
tin loaf
tin monoxide
tin opener
tin ore
tin oxide
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-pottiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium	
tincture press	
tinder fungus
tinder-cloaked
tinder-dry
tinea barbae
ting ware
ting-a-ling
tingle with excitement
tinhorn gambler	
tink-a-tink	
tinker mackerel
tinker up
tinker's dam	
tinker's damn
tinker's damn, a
tinker's weed	
tinkle-tinkle
tinkle-tankling
tinned dog	
tinned goods
tinning stack	
tinsel-bright	
tinsel-clad	
tinsel-covered	
tinsel-embroidered	
tinsel-paned	
tinsel-slippered
tint block
tint for tant
tint meter
tint photometer
tint tool
tiny bit
tip and run
tip cap
tip car
tip cheese
tip crane
tip in
tip off
tip over
tip plant
tip roast
tip roll
tip sled
tip slide
tip speed
tip table
tip the hat to
tip the scale
tip the scales
tip truck
tip van
tip wagon
tip worm
tip your hand
tip-
tip-and-run
tip-cat
tip-crowning
tip-curved
tip-eared
tip-finger
tip-in
tip-off
tip-on
tip-tap
tip-tilted
tip-top
tip-top table
tip-up
tip-up table
tippa-malku
tipper truck
tipper-off
tire repairman

tire retreader

tire roller

tire setter

tire shaper

tire shoe

tire shrinker

tire Stamper

tire tape

tire to death

tire tool

tire tread

tire tube

tire turner

tire upsetting

tire valve

tire vulcanizer

tire-bending

tire-changing


tire-filling

tire-heating

tire-inflating

tire-mile

tire-woman

tired and weary-laden

tired cliche

tired market

tired of

tired of living

tired out

tired to death

tired-armed

tired-eyed

tired-faced

tired-headed

tired-looking

tired-winged

tiresome work

tiring house

tiring irons

tiring maid

tiring room

tiring woman

tiring-house

tiring-irons

tiring-room

tirlie-wirlie

tirling pin
tirly-toy
rirra-lirra
tishah-b'ab
tissue culture
tissue fibrinogen
tissue fluid
tissue paper
tissue-building
tissue-changing
tissue-destroying
tissue-forming
tissue-paper
tissue-producing
tissue-secretion
tisty-tosty
tit babbler
tit drill
tit for tat
tit in the wringer
tit screw
tit-bit
tit-tat-toe
tit-up	
tita root
titadiing or caption	
titan crane
titan-
titanic acid	
titanic anhydride
titanic iron ore
titanic oxide
titanum dioxide
titanium oxide
titanium white

titano-
titer test
tithe barn
tithe collector
tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man

title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
title insurance
title letter
title lining
title of honor
title page
title role
title space
title type
title-bearing
title-deed
title-holding
title-hunting
title-mad
title-page
title-seeking
title-winning
mitter-totter
tittle-tattle
tittle-tattled
tittle-tattler
tittle-tattling
titular bishop
tityre-tu
tiz-woz
to a T
to a certain extent
to a certainty
to a degree
to a draw
to a fare-thee-well
to a fare-ye-well
to a fare-you-well
to a fault
to a finish
to a frazzle
to a great degree
to a great extent
to a hair
to a large extent
to a man
to a nicety
to a small degree
to a small extent
to a standoff
to a tee
to a tie
to a tittle
to a turn
to advantage
to all appearances
to all intents and purposes
to all seeming
to an extent
to an inch
to and fro
to any end
to atone for
to be brief
to be counted on
to be counted on your fingers
to be depended upon
to be desired
to be exact
to be expected
to be fair
to be had
to be on the road
to be precise
to be preferred
to be reckoned on
to be relied upon
to be seen
to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to bits
to blame
to boot
to cite an instance
to come
to come to the point
to completion
to crown all
to cut the matter short
to date
to death
to do
to everywhere
to excess
to explain
to extremes
to fit the pocketbook
to gain some private ends
to gild refined gold
to go
to good account
to good effect
to good purpose
to good use
to grin like a Cheshire cat
to guess
to hand
to have and to hold
to have sex
to hawse
to heel
to hell and back
to his executors and assigns
to his heirs
to his heirs and assigns
to illustrate
to infinity
to judge by appearances
to kalon
to keep
to landward
to lease
to leeward
to let
to little purpose
to make a dent
to make a guess
to make a long story short
to name an instance
to no extent
to no purpose
to nourish a viper in your bosom
to one side
to order
to paint the lily
to perfection
to pieces
to post on a diagonal
to profit
to prove the point
to relieve yourself
to retain
to rights
to say nothing of
to sell
to shards
to shreds
to smitherens
to some degree
to some extent
to some purpose
to spare
to speak of
to speak truthfully
to splinters
to state the fact
to state the truth
to such an extent
to tatters
to tell the truth
to that place
to the account of
to the amount of
to the backbone
to the bad
to the best of your ability
to the best of your belief
to the best of your knowledge
to the bitter end
to the brim
to the contrary
to the core of
to the crack of doom
to the credit of
to the death
to the edge of doom
to the end
to the end of time
to the end that
to the extreme
to the eye
to the fore
to the four corners of the earth
to the four winds
to the front
to the full
to the good
to the heart of
to the heirs of his body
to the highest degree
to the hilt
to the king's taste
to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past
to the point
to the point of exhaustion
to the purpose
to the queen's taste
to the rear
to the right
to the same degree
to the second
to the side
to the skies
to the sky
to the teeth
to the top of your bent
to the tune of
to the utmost
to the wind
to the windward
to the wise
to the zenith
to this day
to this place
to throw a perfume on the violet
to what extent
to what place
to which place
to windward
to wit
to year and day
to your account
to your amazement
to your astonishment

to your cost

to your credit

to your delight

to your disgust

to your displeasure

to your face

to your fancy

to your fingertips

to your great glee

to your great surprise

to your health

to your heart’s content

to your knowledge

to your liking

to your mind

to your satisfaction

to your shame

to your shame be it spoken

to your surprise

to your taste

to your utmost

to your way of thinking

to-

to-and-fro

to-and-fros

to-and-ko

to-arrive

to-be

to-break

to-burst

to-day

to-do

to-dos

to-draw

to-drive

to-fall

to-morn

to-morrow

to-name

to-night

to-rend

to-rights

to-side

to-tear

to-year

toad bug

toad grass
toad lily
toad orchis
toad rush
toad snatcher
toad spit
toad spittle
toad spot
toad stabber
toad sticker
toad's-mouth
toad-bellied
toad-blind
toad-eat
toad-eater
toad-fish
toad-flax
toad-frog
toad-green
toad-hating
toad-housing
toad-in-the-hole
toad-legged
toad-shaped
toad-spotted
toad-swollen
toadstool disease
toady to
toad color
toad list
toad rack
toad water
toad-brown
toasted cheese sandwich
toasting fork
toasting iron
tobacco addiction
tobacco bagger
tobacco barn
tobacco beetle
tobacco belt
tobacco box
tobacco brown
tobacco bug
tobacco camphor
tobacco carton
tobacco case
tobacco chewing
tobacco cloth
tobacco cultivator
tobacco cutter
tobacco dryer
tobacco dust
tobacco fertilizer
tobacco flea beetle
tobacco granulator
tobacco grater
tobacco hawk moth
tobacco heart
tobacco hornworm
tobacco juice
tobacco lath
tobacco leaf miner
tobacco liquor
tobacco liquorer
tobacco machine
tobacco machinery
tobacco mildew
tobacco molder
tobacco mosaic
tobacco mosaic virus
tobacco panner
tobacco pipe
tobacco pouch
tobacco press
tobacco rack
tobacco retainer
tobacco road
tobacco roller
tobacco shaver
tobacco shed
tobacco shop
tobacco smoker
tobacco smoking
tobacco sprayer
tobacco spreader
tobacco stick
tobacco stopper
tobacco store
tobacco stripper
tobacco thrips
tobacco tongs
tobacco twister
tobacco user
tobacco water
tobacco wilt
tobacco worm
tobacco-abusing
tobacco-box
tobacco-box skate
tobacco-breathed
tobacco-growing
tobacco-pipe
tobacco-pipe clay
tobacco-plant
tobacco-sick
tobacco-smoking
tobacco-stained
tobacco-stemming
tobin's tube
tobira family
toboggan cap
toboggan slide
tobosa grass	
toby jug
toc-toc
toccata form
tocharian a
tocharian b
tocher band
tocher good
toco-
tod stove	
toddle along
toddy bird
toddy blossom
toddy cat
toddy ladle
toddy palm
toddy stick
toddy table
toddy tree
toe and heel
toe biter
toe box
toe calk
toe cap
toe clip
toe crack
toe dance
toe dancer
toe distance
toe dog
toe hardy
toe hold
toe kisser
toe kissing
toe pilling
toe rail
toe ring
toe the line
toe the mark
toe upon
toe wall
toe weight
toe-dance
toe-danced
toe-dancing
toe-drop
toe-in
toe-mark
toe-punch
toffee dipper
toffee-apple
toffee-nosed
tog out
tog up
toga virilis
together on
together with
toggle bolt
toggle chain
toggle harpoon
toggle hook
toggle iron
toggle joint
toggle motion
toggle press
toggle rail
toggle riveter
toggle switch
toggle-joint press
toggle-jointed
togt-rider
togt-riding
tohu-bohu
toil and moil
toil and trouble
toil-assuaging
toil-beaten
toil-bent
toil-exhausted
toil-hardened
token silver
token strike
token vote
token-money
tol de rol
tol-
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-ish
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
toluyl radical
tolyl group
tolyl radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gall
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
tomato pulp
tomato puree
tomato red
tomato sauce
tomato scalder
tomato soup
tomato sphinx
tomato streak
tomato stripe
tomato transplanter
tomato trellis
tomato wilt
tomato worm
tomato yellows
tomato-colored
tomato-growing
tomato-leaf
tomato-washing
tomb bat
tomb house
tomb maker
tomb tower
tomb-bat
tomb-black
tomb-breaker
tomb-dwelling
tomb-making
tomb-paved
tomb-robbing
tomb-strewn
tomblike silence
tombstone marking
tomcat around
tomkin post
tommy bar
tommy book
tommy day
tommy gun
tommy hole
tommy master
tommy noddy
tommy shop
tommy system
tommy-axe
tommy-gun
ton-foot
ton-force
ton-kilometer
ton-mile
ton-mileage
ton-up
tonal gap
tonal island
tone accent
tone arm
tone cluster
tone color
tone colour
tone control
tone deafness
tone down
tone gap
tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down
tong borer
tongue and groove
tongue bar
tongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm
tongue-and-groove joint
tongue-back
tongue-baited
tongue-bang
tongue-bitten
tongue-blade
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-graft
tongue-halted
tongue-hammer
tongue-jangling
tongue-kill
tongue-lash
tongue-lashing
tongue-leaved
tongue-lolling
tongue-murdering
tongue-pad
tongue-point
tongue-puissant
tongue-shaped
tongue-tack
tongue-taming
tongue-taw
tongue-tie
tongue-tied
tongue-tier
tongue-valiant
tongue-wagging
tongue-walk
tongue-wanton
tonguing plane
tonguing-and-grooving plane
tonic accent
tonic chord
tonic epilepsy
tonic key
tonic major
tonic minor
tonic motion
tonic section
tonic sol-fa
tonic sol-faist
tonic spasm
tonic treatment
tonic triad
tonic water
tonka bean
tonka bean camphor
tonka-bean camphor
tonka-bean wood
tonnage coefficient
tonnage deck
tonnage displacement
tonnage duty
tonnage length
tonnage opening
tonnage pool
tonnage train
tonnage well
tonneau cover
tonneau lamp
tonneau windshield
tono-
tonsill-
tonsured cleric
too bad
too big
too big for your britches
too big for your shoes
too clever by half
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-AGED
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
too-long
too-much
too-muchness
too-near
too-old
too-patient
too-piercing
too-proud
too-ripe
too-short
too-soon
too-soonness
too-timely
too-too
too-trusting
too-willing
too-wise
tool shed
tool shop
tool socket
tool spindle
tool stamper
tool stand
tool steel
tool storekeeper
tool subject
tool table
tool temper
tool tray
tool treating
tool truck
tool turner
tool wagon
tool whetter
tool-and-die maker
tool-cleaning
tool-cutting
tool-dresser
tool-dressing
tool-maker
tool-sharpening
tool-using
tooling up
toolroom lathe
tools and machinery
toot plant
toot your own horn
tooth and nail
tooth ax
tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge
tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-checker
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
toothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top priority
top round
top secret
top sergeant
top shape
top side
top slice
top slicing
top speed
top spin
top spot
top the
top timber
top up
top yeast
top-
top-armor
top-boot
top-cap
top-castle
top-coated
top-cross
top-cutter
top-dog
top-drain
top-drawer
top-dress
top-dressing
top-flight
top-full
top-graft
top-hamper
top-hampered
top-hand
top-hat
top-hatted
top-heavily
top-heaviness
top-heavy
top-heavy market
top-hole
top-level
top-lit
top-notch
top-over-tail
top-piece
top-rank
top-ranking
top-road bridge
top-sawyer
top-secret
top-set
top-sew
top-shaped
top-shell
top-stone
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
torpedo rocket
torpedo room
torpedo sand
torpedo school
torpedo spar
torpedo station
torpedo stern
torpedo strike aircraft
torpedo tube
torpedo-boat
torpedo-boat catcher
torpedo-boat destroyer
torpedo-shaped
torque arm
torque converter
torque tube
torque wrench
torrent bow
torrent duck
torrent of rain
torrent-bitten
torrent-borne
torrent-braving
torrent-flooded
torrent-mad
torrent-swept
torrid heat
torrid zone
torsion angle
torsion axis
torsion balance
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress	
tortoiser
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoiseshell turtle
torture the law to your own ends
torus palatinus
tory democracy
tory-rory
tosh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up
tossed salad
tossing and turning
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
totality of references
totality of relations
totally absorbed
totally committed
totally ordered set
totally self-assured
tote bag
tote board
tote box
tote road
tote sack
tote shop
tote to
tote up
tote up to
totem animal
totem badge
totem kin
totem pole	oti-
totidem verbis
toties quoties
toto caelo	oto-
totter along
totter on the brink
totter to your fall
tottery in years	otty-headed	ouch a chord
touch a nerve
touch a nerve ending
touch a raw nerve
touch a soft spot
touch a sore spot
touch a sympathetic chord
touch a tender spot
touch and go
touch body
touch bottom
touch cerate
touch down
touch elbows with
touch football
touch judge
touch lightly
touch mark
touch method
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
touch typewriting
touch up
touch upon
touch upon in passing
touch upon lightly
touch where it hurts
touch writer
touch writing
touch your heart
touch-
touch-and-go
touch-box
touch-hole
touch-in goal
touch-in-goal
touch-in-goal line
touch-line
touch-me-not
touch-me-not-ish
touch-paper
touch-piece
touch-powder
touch-tackle
touch-type
touch-up
touched in the head
touched in the wind
touching down
tough as leather
tough break
tough cake
tough grind
tough guy
tough it out
tough job
tough lineup to buck
tough luck
tough nut to crack
tough out
tough pitch
tough pitch copper
tough policy
tough proposition
tough shit
tough tenacity of purpose
tough titty
tough-backed
tough-fibered
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mindedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs	
tours en l'air
tous-les-mois
tousled hair
tout a fait
tout a l'heure
tout au contraire
tout court
tout de suite
tout ensemble
tout le monde	
tow boy
tow car
tow carder
tow carrier
tow cloth
tow hook
tow iron
tow mixer
tow post
tow sack
tow team
tow truck
tow wheel
tow-colored
tow-coloured
tow-feeder
tow-haired
tow-headed
tow-line
tow-made
tow-net
tow-netter
tow-netting
tow-path
tow-pung
tow-rope
tow-row
tow-spinning
towel gourd
towel horse
towel rack
towel rail
tower above
tower away
tower bastion
tower bolt
tower cap
tower chime
tower clock
tower cress
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
town wall
town way
town woman
town yard
town-absorbing
town-and-country suit
town-born
town-bound
town-bred
town-clerk
town-cress
town-dotted
town-dwelling
town-end
town-flanked
town-frequenting
town-girdled
town-goer
town-going
town-house
town-imprisoned
town-keeping
town-killed
town-living
town-looking
town-loving
town-made
town-major
town-meeting
town-pent
town-planning
town-sick
town-talk
town-tied
town-trained
town-weary
townhall clock
township line
township road
towrope horsepower
tox-
toxic goiter
toxic inflammation
toxic psychosis
toxic shock syndrome
toxic-
toxic-
toxico-
toxin-anatoxin
 toxin-antitoxin
 toxin-antitoxin immunity
 toxin-antitoxin immunization
toxo-
toxophore group
toy dog
toy manchester
toy poodle
toy shop
toy soldier
toy spaniel
toy terrier
toy with
toy-loving
toy-shop
toy-sized
tr-ties
tra-la
tra-la-la
trace buckle
trace chain
trace connector
trace down
trace element
trace fastener
trace holder
trace hook
trace horse
trace of an idea
trace out
trace over
trace spring
trace the derivation of
trace the origin of
trace to
trace-bearer
trace-galled
trace-high
tracer atom
tracer bullet
tracer element
tracer investigation
trache-
trachelo-
trachelo-occipital
tracheo-
trachio branchia
trachy-
tracing braid
tracing cloth
tracing paper
tracing thread
tracing wheel
track and field
track boat
track bolt
track brake
tracker bar
tracker-action organ
tracking down
tracking shot
tracking station
trackless trolley
tract index
tract of time
traction engine
traction fiber
traction sprayer
traction wheel
traction-engine
tractive effort
tractive power
tractor airplane
tractor airscrew
tractor plane
tractor propeller
tractor trailer
tractor truck
tractor-trailer
trade acceptance
trade agreement
trade allowance
trade association
trade at
trade balance
trade board
trade book
trade center
trade club
trade coin
trade commissioner
trade council
trade cumulus
trade cycle
trade discount
trade dollar
trade ducat
trade edition
trade editor
trade eruption
trade fair
trade fixture
trade gap
trade goods
trade guild
trade-seeking
trade-union
trade-unionism
trade-unionist
trade-wind
trade-wind rig
trademark name
trades board
trades council
trades hall
trades-union
trades-unionism
trades-unionist
trading account
trading estate
trading market
trading post
trading stamp
tradition-bound
tradition-fed
tradition-following
tradition-making
tradition-nourished
tradition-ridden
traditional grammar
traditional logic
tradier battery
traffic beacon
traffic circle
traffic constable
traffic control
traffic control signal
traffic cop
traffic court
traffic density
traffic director
traffic engineering
traffic in
traffic in women
traffic island
traffic jam
traffic law
traffic light
traffic manager
traffic of the stage
traffic officer
traffic pattern
traffic policeman
trail plate
trail rope
trail sight
trail spade
trail spur
trail-eye
trail-marked
trail-weary
trail-wise
trail camp
trail car
trail court
trail park
trail truck
trailing arbutus
trailing edge
trailing evergreen
trailing fuchsia
trailing myrtle
trailing phlox
trailing vortex drag
trailing-point
trailing-point switch
train butcher
train caller
train conductor
train crew
train dispatcher
train flagman
train foreman
train guard
train hand
train indicator
train inspector
train jumper
train legs
train line
train mileage
train of thought
train off
train oil
train pipe
train recorder
train reporter
train robber
train room
train rope
train schedule
train service
train shed
train sheet
train sickness
train signal
train spotter
train staff
train starter
train stop
train tackle
train ticket
train trip
train upon
train wrecker
train-dispatching
train-giddy
train-lighting
train-mile
trained nurse
trainer-bomber
trainer-fighter
training aid
training bank
training college
training day
training group
training level
training missile
training mission
training pants
training rocket
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
trans-sonic
trans-subjective
transact business
transact business with
transactional analysis
transcendent essence
transcendent idea
transcendent universal
transcendent wonder
transcendental aesthetic
transcendental analytic
transcendental dialectic
transcendental idealism
transcendental logic
transcendental meditation
transcendental number
transcendental object
transcendental philosophy
transcription turntable
transfer RNA
transfer agent
transfer book
transfer box
transfer caliper
transfer case
transfer company
transfer conductance
transfer day
transfer fee
transfer ink
transfer list
transfer of property
transfer of right
transfer of training
transfer paper
transfer payment
transfer picture
transfer printing
transfer property
transfer resistance
transfer right
transfer stamp
transfer table
transferable vote
transference neurosis
transference number
transferred meaning
transferred sense
transferring machine
transfinite cardinal
transfinite number
transfinite ordinal
transformation myth
transformation range
transformation rule
transformation scene
transformation temperature
transformational grammar
transformational linguistics
transformational rule
transformer oil
transfuse the sense of
transfusion cell
transfusion tissue
transient boarder
transient cause
transient guest
transient lodging
transient state
transistor circuit
transistor hearing aid
transistor physics
transistor radio
transit camp
transit certificate
transit circle
transit compass
transit department
transit duty
transit floater
transit instrument
transit pass
transit prism
transit privileges
transit rot
transit station
transit theodolite
transit time
transition curve
transition element
transition fit
transition form
transition mission
transition point
transition probability
transition sound
transition strip
transition temperature
transition tint
transitive verb
transitive visit number
transitory action
translate into
translate into action
translating roller
translation of axes
translucent things
transmigration of souls
transmission bands
transmission belting
transmission cable
transmission case
transmission chain
transmission clutch
transmission density
transmission dynamometer
transmission efficiency
transmission electron microscope
transmission factor
transmission gear
transmission grating
transmission level
transmission line
transmission lock
transmission loss
transmission of light
transmission pulley
transmission pump
transmission rope
transmission shaft
transmission sheaf
transmission stop system
transmission theory
transmission tower
transmission unit
transmission wheel
transmit warrant
transmit-receive unit
transmit-receiver
transmitter part
transmitter parts
transmitter receiver
transmitter signal
transmitter truck
transmitting antenna
classifying set
classifying station
classifying rocket
classifying adjuster
classifying bar
classifying butt
classifying catch
classifying center
classifying chain
classifying eye
classifying frame
classifying knee
classifying lift
classifying light
classifying operator
classifying plate
classifying stern
classifying window
classifying-sterned
classifying barrier
classifying color
classifying item
classifying substance
classifying things
classifying partisan leadership
classifying personal therapy
classifying physical science
classifying expiration current
classifying caf
classifying number
classifying rider
classifying riding
classifying ship
classifying vessel
classifying transportation corps
classifying transportation engineer
classifying transportation insurance
classifying transportation map
classifying transporter bridge
classifying transposed conjug
classifying transposed conjugate
classifying transposed matrix
classifying transposing instrument
classifying transposition cipher
classifying transposition method
classifying transsonic speed
classifying transverse colon
transverse flute
transverse magnification
transverse presentation
transverse process
transverse section
transverse vibrations
transverse wave
trap bat
trap bat and ball
trap brilliant
trap bushing
trap car
trap clamp
trap cleaner
trap cover
trap crop
trap cut
trap door
trap driver
trap drummer
trap fisher
trap hatch
trap lever
trap line
trap match
trap nest
trap net
trap on the ropes
trap play
trap screw
trap shot
trap stair
trap tree
trap tuff
trap vent
trap weir
trap window
trap-ball
trap-cut
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
travel-enjoying
travel-famous
travel-formed
travel-gifted
travel-infected
travel-jaded
travel-loving
travel-mad
travel-met
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
tray agriculture
tray boy
tray cloth
tray conveyer
tray elevator
tray emptier
tray filler
tray frame
tray handle
tray maker
tray table
tray-shaped
tray-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly	
tread-wheel
treading down
treading mill
treading water
treads and risers	
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing
treasure box
treasure chamber
treasure chest
treasure city
treasure house
treasure hunt
treasure hunter
treasure hunting
treasure quest
treasure room
treasure seeker
treasure ship
treasure trove
treasure up
treasure up in the heart
treasure up in the memory	
treasure-baited
treasure-bearing
treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove	
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant
treat as routine
treat for sore eyes
treat gently
treat lightly
treat like dirt under your feet
treat of
treat to
treat unequally
treat well
treat with
treat with contempt
treat with disrespect
treat with indignity
treat with reserve
treatment room
treaty maker
treaty making
treaty of peace
treaty port
treaty reinsurance
treaty-bound
treaty-breaking
treaty-favoring
treaty-sealed
treaty-secured
treble best
treble block
treble bob
treble chance
treble clef
treble gear
treble purchase
treble staff
treble viol
treble-dated
treble-geared
treble-sinewed
tree agate
tree aloe
tree azalea
tree bear
tree belt
tree boa
tree bracket
tree cactus
tree calf
tree cat
tree celandine
tree class
tree clover
tree cobra
tree compass
tree cony
tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fuchsia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hoopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree looker
tree lotus
tree lucern
tree lungwort
tree lupine
tree mallow
tree marking
tree marten
tree martin
tree medic
tree mildew
tree milk
tree molasses
tree moss
tree mouse
tree myrtle
tree nymph
tree of Jesse
tree of heaven
tree of knowledge
tree of life
tree of sadness
tree onion
tree orchis
tree partridge
tree peony
tree pie
tree pigeon
tree pipit
tree planter
tree planting
tree poke
tree poppy
tree porcupine
tree primrose
tree protector
tree pruner
tree root rot
tree rune
tree runner
tree scribe
tree shrew
tree-great
tree-haunting
tree-hewing
tree-inhabiting
tree-lined
tree-living
tree-locked
tree-loving
tree-marked
tree-moss
tree-planted
tree-pruning
tree-ripe
tree-run
tree-runner
tree-sawing
tree-shaded
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top
trefled cross
trefoil arch
trefoil knot
trefoil-shaped
trek ox
trek wagon
trellis-bordered
trellis-covered
trellis-framed
trellis-shaded
trellis-sheltered
trellis-work
trellis-woven	tremble in the balance	tremble in your boots	tremble in your shoes	tremble like an aspen leaf	tremble on the verge	tremble to its fall	tremble to your fall	trembleuse cup	trembling in the balance	trembling poplar	trembling prairie
tremor disk
tremor of excitement
trench albuminuria
trench artillery
trench back
trench bomb
trench cart
trench cavalier
trench coat
trench digger
trench disease
trench fever
trench foot
trench gun
trench knife
trench mortar
trench mouth
trench nephritis
trench plow
trench sickness
trench silo
trench warfare
trench-plough
trencher attendant
trencher cap
trencher companion
trencher critic
trencher friend
trencher knight
trencher philosopher
trencher plate
trencher poetry
trencher rascal
trencher slave
trencher time
trencher-cap
trencher-fed
trencher-man
trenching plane
trenching spade	
trend downward
trend of the times
trend upwards
trend-setter
trente et quarante
trente-et-quarante	
tres bien

tres bon
tres vif
tres-tine
trespass board
trespass offering
tress-braiding
tress-encircled
tress-lifting
tress-plaiting
tress-shorn
tress-topped
trestle and table
trestle bed
trestle bent
trestle board
trestle bridge
trestle legs
trestle post
trestle table
trestle-tree
trey-ace
trez-tine
tri-
tri-city
tri-ester
tri-iodide
tri-mide
tri-pack
tri-personal
tri-ply
tri-tunnel
tria juncta in uno
triakis-
trial and error
trial at the bar
trial balance
trial balloon
trial brief
trial by battle
trial by jury
trial case
trial court
trial docket
trial engagement
trial examiner
trial frame
trial glasses
trial heat
trial horse
trial impression
trial judge advocate
trial jury
trial lawyer
trial lenses
trial marriage
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricolor camera
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanic acid
tridarn cupboard
trident bat
trident-shaped
tridymite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
triggering pulse
triggering signals
trigonal trisoctahedron
trigono-
trigonometric equation
trigonometric function
trihydric alcohol
trilateral symmetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinitro-
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
trio-de-heptode
trip catch
trip charter party
trip dial
trip die
trip dog
trip engine
trip gear
trip hammer
trip hook
trip line
trip money
trip over your own feet
trip over your tongue
trip piece
trip pin
trip rate
trip shaft
trip slip
trip system
trip the light fantastic
trip to Mars
trip to the moon
trip train
trip up
trip-free
trip-hammer
trip-madam
trip-toe
tripartite and pretty
tripe de roche
tripe dresser
tripe seller
tripe-de-roche
tripe-eating
tripe-selling
triphenylmethane color
triphenylmethane dye
triphosphoric acid
triple bond
triple counterpoint
triple crown
triple dresser
triple fugue
triple integral
triple jump
triple measure
triple play
triple plume
triple point
triple rhyme
triple rhythm
triple scalar product
triple superphosphate
triple tangent
triple tangent plane
triple threat
triple time
triple vaccine
triple-acting
triple-action
triple-aisled
triple-apsidal
triple-arched
triple-awned
triple-barbed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triplicate-ternate
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat
troilus butterfly
trois point
trojan horse
trojan war
troll plate
troll-drum
troll-madam
trolley attendant
 trolley block
 trolley bracket
 trolley bus
 trolley car
 trolley carrier
 trolley catcher
 trolley clip
 trolley coach
 trolley cord
 trolley fork
 trolley frog
 trolley gong
 trolley guard
 trolley harp
 trolley hoist
 trolley insulator
 trolley lace
 trolley line
 trolley locomotive
 trolley maker
 trolley pole
 trolley rail
 trolley retriever
 trolley road
 trolley shoe
 trolley spring
 trolley track
 trolley tracking
 trolley wagon
 trolley wheel
 trolley wire
 tromba marina
 trombe marine
 trombone coil
 trompe l'oeil
 tron weight
 trone weight
 troop carrier
 troop duck
 troop leader
 troop school
 troop train
 troop transport
 troop-lined
 troop-thronged
 troops of the line
 troostite-martensite
troosto-martensite
trop-
tropaeolin D
trope of comparison
tropeolin D
troph-
trophic level
tropho-
trophy cress
trophy money
trophy room
trophy tax
tropic bird
tropic of
tropic of Cancer
tropic of cancer
tropical aquarium
tropical bubo
tropical cycl
tropical cyclone
tropical fish
tropical heat
tropical medicine
tropical storm
tropical suit
tropical year
 tropo-
trot along
trot out
troth ring
troth-contracted
troth-keeping
troth-plight
troth-telling	
trotter cases
trotting race
trou madame
trou-de-coup
trou-de-loup
troubadour fiddle
troubadour poem
trouble maker
trouble man
trouble shooter
trouble shooting
trouble spot
trouble you for
trouble your head about
trouble yourself
trouble-bringing
trouble-free
trouble-giving
trouble-haunted
trouble-house
trouble-mirth
trouble-saving
trouble-shooter
trouble-tossed
trouble-worn
troubled mind
troubled thought
troubled waters
trough battery
trough conveyor
trough gutter
trough iron
trough keel
trough line
trough roof
trough room
trough shape
trough-shaped
trouser press
trouser presser
trouser suit
trouser-press
trouser bass
trouse brook
trouse fishing
trouse fly
trouse lily
trouse perch
trout shad
trout stream
trout-colored
trout-famous
trout-haunted
trout-perch
trowel bayonet
trowel-shaped
troy ounce
troy pound
troy weight
truant officer
truant school
truce flag
truce-hating
truce-seeking
truck box
truck car
truck crop
truck driver
truck farm
truck farmer
truck farming
truck garden
truck gardener
truck gardening
truck horse
truck house
truck jobber
truck shot
truck system
truck tractor
truck trailer
trucking house
trucking shot
truckle bed
truckle to
truckle-bed
truckman's knot
trudgen crawl
trudgen stroke
true Christian
true air speed
true anomaly
true as gospel
true bearing
true being
true believer
true bill
true blue
true bug
true course
true faith
true fly
true fresco
true grit
true heading
true horizon
true inwardness
true jade
true laurel
true level
true lover’s knot
true meaning
true north
true rib
true skin
true time
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
true-aimed
true-based
true-begotten
true-believing
true-blooded
true-blue
true-born
true-breasted
true-bred
true-dealing
true-derived
true-devoted
true-disposing
true-divining
true-eyed
true-false
true-false test
true-felt
true-grained
true-hearted
true-heartedness
true-heroic
true-life
true-love
true-love knot
true-lover’s knot
true-made
true-mannered
true-meaning
true-meant
true-noble
ture-paced
ture-ringing
ture-run
ture-seeming
ture-souled
ture-speaking
ture-spelling
ture-spirited
ture-spoken
ture-stamped
ture-strung
ture-sublime
ture-sweet
ture-thought
ture-to-lifeness
ture-toned
ture-tongued
true-love knot
trump and solemn heraldry
trump card
trump of doom
trump signal
trump up
trump up a charge
trump-poor
trumped-up
trumped-up charge
trumped-up story
trumpet animalcule
trumpet arch
trumpet ash
trumpet blare
trumpet blast
trumpet call
trumpet conch
trumpet creeper
trumpet daffodil
trumpet fish
trumpet flower
trumpet fly
trumpet forth
trumpet honey suckle
trumpet honeysuckle
trumpet hypha
trumpet lily
trumpet major
trumpet marine
trunk turtle
trunk whale
trunk-breeches
trunk-decked vessel
trunk-fish
trunk-hose
trunk-maker
trunnion band
trunnion carriage
trunnion chain
trunnion cradle
trunnion hoop
trunnion jig
trunnion plate
truss beam
truss bow
truss bridge
truss hoop
truss rod
truss up
truss-bound
truss-galled
truss-hoop
trussed beam
trussed joist
trussing bed
trussing machine
trust account
trust agreement
trust beneficiary
trust buster
trust busting
trust certificate
trust company
trust corporation
trust deed
trust fund
trust implicitly
trust in
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
truth-bearing
truth-cloaking
truth-cowed
truth-declaring
truth-denying
truth-desiring
truth-destroying
truth-dictated
truth-filled
truth-function
truth-functional
truth-functionally
truth-guarding
truth-instructed
truth-led
truth-loving
truth-mocking
truth-passing
truth-perplexing
truth-revealing
truth-seeking
truth-shod
truth-speaking
truth-telling
truth-tried
truth-value
truth-writ
try a case
try again
try and
try and make me
try and try
try and try again
try anything once
try cock
try conclusions
try conclusions with
try for
try for a miracle
try for point
try gun
try hard
try hole
try in all its phases
try it
try it for size
try it on
try on
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a sieve
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your damndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypan flavine neut
trypan blue
trypan red
trysail gaff
trysail mast
trysting day
trysting place
tsetchem leshallom
tsetse fly
tsetse fly disease
tsutsugamushi disease
tsutsugamushi mite
tu quoque
tu-chung
tu-chung bark
tu-whit
tu-whit tu-whoo
tu-whoo
tuan muda
tub boat
tub butter
tub chair
tub desk
tub drubber
tub front
tub maker
tub of lard
tub preacher
tub preaching
tub thumper
tub thumping
tub wheel
tub-brained
tub-coopering
tub-fast
tub-keeping
tub-preach
tub-preacher
tub-shaped
tub-size
tub-sized	ub-t
tub-thump
tub-thumper
tubal pregnancy
tube brazer
tube casts
tube coral
tube counter
tube culture
tube door
tube drawer
tube foot
tube generator
tube mill
tube of electric force
tube of force
tube plate
tube railway
tube saw
tube set
tube sheet
tube shutter
tube spinner
tube transmitter
tube weaver
tube well
tube worm
tube wrench
tube-bearing
tube-curing
tube-drawing
tube-drilling
tube-eye
tube-eyed
tube-eyes
tube-fed
tube-filling
tube-nosed
tube-rolling
tube-scrapping
tube-shaped
tube-straightening
tube-weaving
tubeless tire
tubeless tyre
tuber aster
tuber fern
tuber indexing
tuber moth
tuber root
tubercle bacillus
tubercul-
tuberculin test
tuberculo-
tuberculosis cutis
tuberculosis luposa
tuberculosis of the intestines
tuberculosis of the larynx
tuberculous arthritis
tuberculous meningitis
tuberculous rheumatism
tuberous root
tuberous-rooted	ubi-
tubo-
tubo-uterine	ubular bells	ubular girder	ubular goods	ubular skate	ubular-flowered	ubular-pneumatic organ
tubuli-
tuck away
tuck box
tuck in
tuck in a reef
tuck net
tuck plate
tuck pointer
tuck pointing
tuck seine
tuck shop
tuck your tail
tuck-in
tuck-net
tuck-out
tuck-point
tuck-pointed
tuck-pointer
tuck-shop
tuckaway table
tucked up
tucker bag
tucker out
tucker-bag
tucker-box
tucker-in
tuckered out
tucky lily
tuco tuco
tuco-tuco
tuco-tucos
tucu tucu
tudor arch
tuft tree
tuft-hunter
tufted duck
tufted hair grass
tufted titmouse
tufted-eared
tufted-necked
tug at the heart
tug at the heartstrings
tug chain
tug iron
tug of war
tug the heartstrings
tug-of-war
tug-of-warring
tula metal
tule chicken
tule goose
tule hen
tule mint
tule perch
tule potato
tule root
tule wren
tulema arrow-root
tulip bed
tulip blight
tulip car
tulip fancier
tulip fire
tulip grower
tulip mold
tulip oak
tulip orchid
tulip poplar
tulip poppy
tulip root
tulip shell
tulip tree
tulip-eared
tulip-fancying
tulip-grass
tulip-growing
tulip-shaped
tulip-tree
tulip-wood
tum out
tum-ti-tum
tum-tum
tumble car
tumble cart
tumble drier
tumble for
tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-tumble-down
tumbledown shack
tumbler bearing
tumbler cart
tumbler cup
tumbler drier
tumbler gear
tumbler gearing
tumbler pigeon
tumbler switch
tumbler-shaped
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly
tump-line
tumulus scab
tun of flesh
tun pail
tun shell
tun-bellied
tun-dish	una cheese	una clipper
tuna fish	una fish salad	una oil	una salad sandwich	une down	une in	une off	une out	une up	une your lyre	une-skilled	une-up	uned antenna	uneful Nine	uner-inner	ung oil	ung tree	ung-oil	ung-oil tree
tungst-
tungsten lamp	ungsten ocher	ungsten steel
tungsten trioxide
tungstic acid
tunic flower
tunica palmata
tuning bar
tuning capacitor
tuning coil
tuning condenser
tuning cone
tuning fork
tuning hammer
tuning hole
tuning horn
tuning key
tuning lever
tuning peg
tuning pin
tuning pipe
tuning slide
tuning wrench
tunking fit
tunna smjors
tunnel anemia
tunnel diode
tunnel disease
tunnel effect
tunnel head
tunnel kiln
tunnel miner
tunnel net
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped	unny oil
tuno gum
tup lamb
tup-headed	upelo gum
tupi-guarani
tupi-guaranian
tupenny-hapenny
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog
turbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine	urbulent flow
turco-
turf accountant	urf ant	urf cake	urf hog	urf moss	urf out	urf webworm	urf-boring	urf-bound	urf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid
turf-roofed
turf-spread
turf-walled
turfing daisy
turgor pressure	
turk's cap
turk's head
turkey beard
turkey berry
turkey bird
turkey blossom
turkey bur
turkey buzzard
turkey call
turkey carpet
turkey claw
turkey cock
turkey corn
turkey fig
turkey foot
turkey gnat
turkey gobbler
turkey grape
turkey grass
turkey hen
turkey louse
turkey mullein
turkey oak
turkey pea
turkey pod
turkey red
turkey shoot
turkey stone
turkey trot
turkey vulture
turkey-cock
turkey-feather
turkey-feather fucus
turkey-foot
turkey-hen
turkey-trot
turkey-trotted
turkey-trotting
turkey-worked
turkish bath
turkish coffee
turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turning out
turning over
turning over in the mind
turning pendant
turning piece
turning plow
turning point
turning rest
turning saw
turning side to side
turning spur
turning square
turning traitor
turning upside down
turning upside-down
turning value
turnip aphid
turnip bean
turnip cabbage
turnip flea
turnip flea beetle
turnip fly
turnip foot
turnip grass
turnip jack
turnip leaf miner
turnip louse
turnip maggot
turnip nigger
turnip parsnip
turnip radish
turnip sawfly
turnip shell
turnip tops
turnip-bearing
turnip-eating
turnip-fed
turnip-growing
turnip-headed
turnip-leaved
turnip-pate
turnip-pointed
turnip-rooted
turnip-rooted celery
turnip-shaped
turnip-sick
turnip-stemmed
turnip-tailed
turnip-yielding
turnover door
turnover hinge
turnover tax
turnpike bond
turnpike geranium
turnpike man
turnpike road
turntable ladder
turnup bed
turnup card
terpentine beetle
terpentine camphor
terpentine gum
terpentine moth
terpentine oil
terpentine orchard
terpentine pine
terpentine plant
terpentine shrub
terpentine substitute
terpentine sunflower
terpentine tree
turpeth mineral
turquoise blue
turquoise green
turquoise-blue
turquoise-colored
turquoise-encrusted
turquoise-hued
turquoise-studded
turquoise-tinted
turret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
turtle deck
turtle grass
turtle green
turtle heart
turtle peg
turtle pegger
turtle pegging
turtle plate
turtle shell
turtle soup
turtle stone
turtle-back
turtle-back shooting
turtle-billing
turtle-dove
turtle-footed
turtle-haunted
turtle-mouthed
turtle-neck
turtle-winged
turtleback scale
turtleneck sweater	usk shell
tusk tenon	ussah silk	ussock grass	ussock moth	ussock sedge	ussock-grass	ut money	ut-mouthed	ut-tut	ut-tutted	ut-tutting	utelar genius	utelar god	utelar spirit	utelary genius	utelary god	utelary spirit	utor-sick	utorial system
tutti passage
tutti-frutti
tuxedo coat
tuxedo jacket	
tuyere arch
tuyere box
tuyere notch
tw-
twae-three
twain cloud
twaite shad
twangling nerves
twattle-basket
tweak the devil's nose
tweak the nose
tweed-clad
tweed-covered
tweed-suited
tweedle-
tween-brain
tween-deck
tween-watch
tweet-tweet
tweeter-woofer
tweezer-case
twelfhynde man
twelfth day
twelfth man
twelfth night
twelfth-cake
twelfth-day
twelfth-night
twelfth-second
twelve dozen
twelve men in a box
twelve o'clock
twelve-acre
twelve-armed
twelve-banded
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruitied
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o'clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-starred
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelvehynde man
twentieth man
twentieth-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eight
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fourmo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twenty-man
twenty-mark
twenty-mesh
twenty-meter
twenty-mile
twenty-minute
twenty-nigger
twenty-nine
twenty-ninth
twenty-one
twenty-one point cassino
twenty-ounce
twenty-payment
twenty-penny
twenty-plume
twenty-pound
twenty-round
twenty-second
twenty-seven
twenty-seventh
twenty-shilling
twenty-six
twenty-sixth
twenty-third
twenty-thread
twenty-three
twenty-ton
twenty-twenty
twenty-two
twenty-wood
twenty-word
twenty-yard
twenty-year
twi-
twi-banked
twi-circle
twi-colored
twi-form
twi-formed
twi-minded
twi-night
twi-nighter	
twice as much
twice over
twice-abandoned
twice-abolished
twice-absent
twice-accented
twice-accepted
twice-accomplished
twice-accorded
twice-accused
twice-achieved
twice-acknowledged
twice-acquired
twice-acted
twice-adapted
twice-adjourned
twice-adjusted
twice-admitted
twice-adopted
twice-affirmed
twice-agreed
twice-alarmed
twice-alleged
twice-allied
twice-altered
twice-amended
twice-angered
twice-announced
twice-anwsered
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bested
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-canceled
twice-canvased
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-condemned
twice-confferred
twice-confessed
twice-confirmed
twice-conquered
twice-consenting
twice-considered
twice-consulted
twice-contested
twice-continued
twice-converted
twice-convicted
twice-copyrighted
twice-corrected
twice-counted
twice-cowed
twice-created
twice-crowned
twice-cured
twice-damaged
twice-dared
twice-darned
twice-dead
twice-dealt
twice-debated
twice-deceived
twice-declined
twice-decorated
twice-decreed
twice-deducted
twice-defaulting
twice-defeated
twice-deferred
twice-defied
twice-delayed
twice-delivered
twice-demanded
twice-denied
twice-depleted
twice-deserted
twice-deserved
twice-destroyed
twice-detained
twice-diminished
twice-dipped
twice-directed
twice-disabled
twice-disappointed
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-dissatisfied
twice-dissatisfied
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubled
twice-doubted
twice-drafted
twice-drugged
twice-dyed
twice-earned
twice-effected
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted
twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-indulged
twice-infected
twice-injured
twice-insulted
twice-insured
twice-invented
twice-invited
twice-issued
twice-jailed
twice-judged
twice-kidnapped
twice-knighted
twice-laid
twice-lamented
twice-leagued
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liable
twice-listed
twice-loaned
twice-lost
twice-mad
twice-maintained
twice-marketed
twice-married
twice-mastered
twice-mated
twice-measured
twice-menaced
twice-mended
twice-mentioned
twice-merited
twice-met
twice-missed
twice-mistaken
twice-modified
twice-mortal
twice-mourned
twice-named
twice-necessitated
twice-needed
twice-negligent
twice-negotiated
twice-nominated
twice-noted
twice-notified
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted
twice-persuaded
twice-perused
twice-petitioned
twice-pinnate
twice-placed
twice-planned
twice-pleased
twice-pledged
twice-poisoned
twice-pondered
twice-posed
twice-postponed
twice-praised
twice-predicted
twice-preferred
twice-prepaid
twice-prepared
twice-prescribed
twice-presented
twice-preserved
twice-pretended
twice-prevailing
twice-prevented
twice-printed
twice-procured
twice-professed
twice-prohibited
twice-promised
twice-promoted
twice-proposed
twice-prosecuted
twice-protected
twice-proven
twice-provided
twice-provoked
twice-published
twice-punished
twice-pursued
twice-qualified
twice-questioned
twice-quoted
twice-raided
twice-re-elected
twice-read
twice-realized
twice-rebuilt
twice-recognized
twice-reconciled
twice-reconsidered
twice-recovered
twice-redeemed
twice-refined
twice-reformed
twice-refused
twice-regained
twice-regretted
twice-rehearsed
twice-reimbursed
twice-reinstated
twice-rejected
twice-released
twice-relieved
twice-remedied
twice-remembered
twice-remitted
twice-removed
twice-rendered
twice-rented
twice-repaired
twice-repeated
twice-replaced
twice-reported
twice-reprinted
twice-requested
twice-required
twice-reread
twice-resented
twice-resisted
twice-restored
twice-restrained
twice-resumed
twice-revenged
twice-reversed
twice-revised
twice-revived
twice-revolted
twice-rewritten
twice-rich
twice-right
twice-risen
twice-roasted
twice-robbed
twice-roused
twice-ruined
twice-sacked
twice-sacrificed
twice-said
twice-salvaged
twice-sampled
twice-sanctioned
twice-saved
twice-scared
twice-scattered
twice-scolded
twice-scorned
twice-sealed
twice-searched
twice-secreted
twice-secured
twice-seen
twice-seized
twice-selected
twice-sensed
twice-sent
twice-sentenced
twice-separated
twice-served
twice-set
twice-settled
twice-severed
twice-shamed
twice-shared
twice-shelled
twice-shelved
twice-shielded
twice-shot
twice-shown
twice-sick
twice-silenced
twice-sketched
twice-soiled
twice-sold
twice-soled
twice-solicited
twice-solved
twice-sought
twice-sounded
twice-spared
twice-specified
twice-spent
twice-sprung
twice-stabbed
twice-staged
twice-stated
twice-stolen
twice-stopped
twice-straightened
twice-stress
twice-stretched
twice-stricken
twice-struck
twice-subdued
twice-subjected
twice-subscribed
twice-substituted
twice-sued
twice-suffered
twice-sufficient
twice-suggested
twice-summoned
twice-suppressed
twice-surprised
twice-surrendered
twice-suspected
twice-suspended
twice-sustained
twice-sworn
twice-tabled
twice-taken
twice-tamed
twice-taped
twice-tardy
twice-taught
twice-tempted
twice-tendered
twice-terminated
twice-tested
twice-thanked
twice-thought
twice-threatened
twice-thrown
twice-tied
twice-told
twice-told tale
twice-torn
twice-touched
twice-trained
twice-transferred
twice-translated
twice-transported
twice-treated
twice-tricked
twice-tried
twice-trusted
twice-turned
twice-undertaken
twice-undone
twice-united
twice-unpaid
twice-upset
twice-used
twice-uttered
twice-vacant
twice-vamped
twice-varnished
twice-ventured
twice-verified
twice-vetoed
twice-victimized
twice-violated
twice-visited
twice-voted
twice-waged
twice-waived
twice-wanted
twice-warned
twice-wasted
twice-weaned
twice-welcomed
twice-whipped
twice-widowed
twice-wished
twice-withdrawn
twice-witnessed
twice-won
twice-worn
twice-wounded
twice-yielded
twiddle your thumbs
twiddle-twaddle
twiddling line	wig beetle
twig blight
twig borer
twig caterpillar
twig drop
twig gall
twig girdler
twig insect
twig pruner
twig rush
twig-formed
twig-green
twig-lined
twig-strewn
twig-suspended
twig-wrought	wilight arch	wilight blue	wilight home	wilight of the gods	wilight of your days	wilight parallel	wilight sleep	wilight state	wilight vision

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 37085
twilight war
twilight zone
twilight-enfolded
twilight-hidden
twilight-hushed
twilight-loving
twilight-seeming
twilight-tinctured
twill weave
twill-woven
twin band mill
twin bed
twin bill
twin boat
twin equatorial
twin mill
twin screws
twin ship
twin sister
twin sisterhood
twin spinnaker rig
twin stock
twin tail wheel
twin tap
twin telescope
twin town
twin triode
twin valve
twin-balled
twin-bearing
twin-begot
twin-blossomed
twin-born
twin-brother
twin-cylinder
twin-engine
twin-engined
twin-engines
twin-existent
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves
twin-lens

twin-lens camera

twin-lens reflex

twin-lens reflex camera

twin-light

twin-motor

twin-motored

twin-named

twin-peaked

twin-power

twin-prop

twin-roller

twin-screw

twin-set

twin-sister

twin-six

twin-spiked

twin-spired

twin-spot

twin-striped

twin-tailboom jet

twin-towered

twin-towned

twin-tractor

twin-wheeled

twin-wire

twine around

twine binder

twine braider

twine cutter

twine holder

twine polisher

twine reeler

twine spinner

twine-binding

twine-bound

twine-colored

twine-spinning

twine-toned

twine-twisting

twinge of conscience

twingle-twangle

twinkle of an eye

twinkling of an eye

twinning axis

twinning law

twinning machine

twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail
twisty-wisty	wit-twat
twitch grass
twitch of conscience
twitch road	wite finch	twitter-twatter
twittle-twattle	twizzle-twig	two bits	two cents
two dozen
two estates
two fifths
two hundred
two leg	two o'clock
two of a kind	two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half striper
two-angle
two-arched
two-armed
two-aspect
two-barred
two-barreled
two-base
two-base hit
two-beat
two-bedded
two-bid
two-bill
two-bit
two-bit politician
two-blade
two-bladed
two-block
two-blocks
two-bodied
two-bodies
two-bodies problem
two-bond
two-bottle
two-bottom plow
two-branched
two-bristled
two-bushel
two-by-four
two-capsuled
two-celled
two-cent
two-centered
two-chamber
two-chambered
two-charge
two-charge rate
two-circle
two-circuit
two-circuit switch
two-cleft
two-coat
two-color
two-color press
two-color printing
two-colored
two-compartment vessel
two-component
two-course system
two-cycle
two-cylinder
two-day
two-deck
two-deck vessel
two-decker
two-dimensional
two-dimensional wave
two-dimensionality
two-dimensionally
two-dimensional
two-dimensioned
two-dollar
two-dollar bill
two-dollar broker
two-dollar word
two-eared
two-edged
two-em
two-em dash
two-ended
two-eye
two-eyed
two-eyes
two-face
two-faced
two-facedly
two-facedness
two-factor
two-family
two-family house
two-feeder
two-field system
two-figure
two-fingered
two-fisted
two-fisted man
two-floor
two-flowered
two-fluid
two-fold
two-foot
two-foot octave
two-footed
two-for-a-cent
two-for-a-penny
two-forked
two-formed
two-four
two-four time
two-gallon
two-grained
two-groove
two-grooved
two-guinea
two-gun
two-hand
two-handed
two-handed saw
two-handedly
two-handedness
two-handled
two-headed
two-high
two-hinged
two-horned
two-horse
two-horsepower
two-hour
two-humped
two-inch
two-leaf
two-leaved
two-legged
two-level
two-life
two-light
two-line
two-line octave
two-lined
two-lipped
two-lobed
two-lunged
two-man
two-man tent
two-mast
two-masted
two-master
two-membered
two-mile
two-minded
two-minute
two-minute gun
two-monthly
two-name
two-name paper
two-named
two-necked
two-needle
two-nerved
two-oar
two-oared
two-ounce
two-pair
two-part
two-part harmony
two-part time
two-parted
two-party
two-party system
two-pass
two-peaked
two-petaled
two-phase
two-phaser
two-piece
two-piece bow
two-piece suit
two-pile
two-piled
two-pin escapement
two-pipe
two-place
two-platoon
two-platoon system
two-plowed
two-ply
two-point
two-point landing
two-pointic
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-seated
two-seater
two-seeded
two-shafted
two-shanked
two-shaped
two-sheave
two-shilling
two-shillingly
two-shillingness
two-shot
two-sided
two-sidedness
two-soused
two-speed
two-spined
two-spored
two-spot
two-spotted
two-stage rocket
two-stall
two-stalled
two-star
two-star general
two-step
two-step rocket
two-stepped
two-stepping
two-sticker
two-storied
two-story
two-stream
two-stringed
two-striped
two-striper
two-stroke
two-stroke cycle engine
two-stroke-cycle
two-suit
two-suiter
two-syllable
two-tailed test
two-teeth
two-thirder
two-thirds
two-three
two-throw
two-time
two-time loser
two-timed
two-timer
two-timing
two-tined
two-toed
two-toed anteater
two-tone
two-toned
two-tongued
two-toothed
two-topped
two-topsail schooner
two-track
two-tusked
two-twisted
two-unit
two-up
two-valved
two-volume
two-way
two-way communication
two-way radio
two-wheel
two-wheeled
two-wheeler
two-wicked
two-winged
two-winged fly
two-woods
two-word
two-year
two-year college
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
tying up
tylo-
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
type block
type body
type cabinet
type case
type caster
type characteristic
type class
type cutter
type cutting
type face
type founder
type founding
type foundry
type gauge
type genus
type lice
type locality
type matter
type measure
type metal
type mold
type object
type page
type part
type plate
type rack
type shank
type size
type sizes
type slug
type species
type specimen
type station
type stem
type style
type styles
type theory
type wash
type wheel
type-blackened
type-cast
type-caster
type-casting
type-cutting
type-distributing
type-dressing
type-high
types of
types of containers
types of languages
types of marks
types of photography
typesetting machine
typesetting machines
typewriter brush
typewriter cabinet
typewriter case
typewriter cover
typewriter desk
typewriter eraser
typewriter holder
typewriter key
typewriter mat
typewriter oil
typewriter pad
typewriter paper
typewriter ribbon
typewriter roller
typewriter stand
typewriter table
typewriter type
typewriting telegraph
typh fever
typhlo-
typhlo-ureterostomy
typho-
typhoid bacillus
typhoid carrier
typhoid fever
typhoid spine
typhus fever
typical case
typical example
typical man
typing machine
typing paper
typist's error
typo-
typographical error
tyrannize over
tyranny of the majority
tyrant bird
tyrant flycatcher
tyrant sparing none
tyrant wren
tyrant-bought
tyrant-hating
tyrant-quelling
tyrant-ridden
tyrant-scourging
tyrian purple
tyrolean hat
tyrolite green
tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ugly as sin
ugly as the wrath of God
ugly customer
ugly duckling
ugly person
ugly thing
ugly wind
ugly-clouded
ugly-conditioned
ugly-eyed
ugly-faced
ugly-headed
ugly-looking
ugly-omened
ugly-tempered
ugly-visaged
uh-huh
ujamaa village
uji fly
ukiyo-e
ulcer diet
ulcerative colitis
ule tree
ulla grass
ullage rocket
ulnar nerve
ulnocondylar foramen
ulterior motive
ultima Thule
ultima ratio
ultima ratio regum
ultima thule
ultimate aim
ultimate analysis
ultimate cause
ultimate concern
ultimate constituent
ultimate load
ultimate purpose
ultimate strength
ultimate stress
ultimate truth
ultra vires
ultra-
ultra-Protestantism
ultra-abolitionism
ultra-abstract
ultra-academic
ultra-affected
ultra-aggressive
ultra-ambitious
ultra-angelic
ultra-apologetic
ultra-arbitrary
ultra-argumentative
ultra-atomic
ultra-auspicious
ultra-slow
ultra-ultra
ultrahigh frequency
ultrahigh-frequency
ultrahigh-frequency station
ultramannish bob
ultrashortwave diathermy
ultrasonic detector
ultrasonic diathermy
ultrasonic flow detection
ultrasonic flow detector
ultrasonic inspector
ultrasonic spectacles
ultrasonic speed
ultrasonic therapy
ultraviolet heat
ultraviolet lamp
ultraviolet light
ultraviolet microscope
ultraviolet ray
ultraviolet therapy
um suff
um-
um-hum
um-yum
umber bird
umber-black
umber-brown
umber-colored
umber-rufous
umbilical cord
umbilical hernia
umble pie
umbra tree
umbrella ant
umbrella bird
umbrella bush
umbrella catalpa
umbrella fern
umbrella fir
umbrella grass
umbrella leaf
umbrella maker
umbrella making
umbrella man
umbrella palm
umbrella pine
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbro-
umbu-rana
umpire assay
unw
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christianise
un-Christianised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christianly
un-Christliness
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-American
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-ableness
un-come-at-ably
un-English
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-able-ness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
able to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaidered eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
unco guid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
unconfirmed report
unconscionable price
unconscious drive
unconscious knowledge
unconscious memory
unconscious mind
unconscious of
unconscious urge
uncontrolled growth
uncontrolled spin
unconversant with
uncover yourself
uncreated being
uncritical acceptance
uncross-examined
und so weiter
unda maris
undec-
undecided issue
undecided voter
undeclared war
undecylenic acid
undeniable fact
under a charm
under a cloud
under a spell
under a strain
under active consideration
under advisement
under an eclipse
under an error
under any other name
under arms
under arrest
under attack
under bare poles
under bevel
under canvas
under close arrest
under coercion
under compulsion
under consideration
under construction
under control
under cover
under cover of
under damping
under detention
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
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under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
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under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
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under-frame
under-garment
under-glaze
under-jaw
under-king
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under-petticoat
under-round
under-runner
under-secretary
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under-the-table
under-time
under-treasurer
undercover activity
undercover man
undercurrent relay
underdeck tonnage
underdeveloped nation
underfrequency relay
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undergo an eclipse
undergo deprivation
undergo privation
undergo schooling
undergo treatment
underground activity
underground cable
underground fighter
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underground literature
underground movie
underground railroad
underground railway
underground river
underground route
underground trolley
underground warfare
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underhand dealing
underhand stope
underheat brooder
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underload switch
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underlying reason
underlying structure
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undermine your reason
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underpower relay
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undershot wheel
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unfair practice
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unfallen state
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unfit to live in
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unfortunate time
unfortunate woman
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unfulfilled pledge
unfunded debt
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unfurl a flag
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unfurl sail
unfurnished uninhabited
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ungka puti
ungrateful wretch
ungreenable black
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unhappy lot
unhappy-eyed
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unhappy-happy
unhappy-looking
unhappy-seeming
unhappy-witted
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unheard-of
unholy dread
unholy joy
unholy mess
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uni-univalent
unicameral legislature
unicellular animal
unicorn antelope
unicorn beetle
unicorn bird
unicorn fish
unicorn hawk moth
unicorn moth
unicorn plant
unicorn ram
unicorn root
unicorn shell
unicorn whale
unicorn-plant family
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unidirectional microphone
unidirectional signal
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unified field theory
unified theory
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uniform velocity
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unitary matrix
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unite in holy wedlock
unite in marriage
unite in sexual intercourse
unite with
united action
united front
united nations day
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unitive life
units of force
units of mass
units of weight
unity of interest
unity stress
univalent chromosome
univalent vaccine
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universal affirmative
universal agreement
universal algebra
universal antenna
universal church
universal class
universal concept
universal conception
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universal donor
universal ego
universal essence
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
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universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
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unlucky hour
unlucky person
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unmoved mover
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uno saltu
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unofficial wife
unorganized data
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unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
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unrefined mineral
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unregistered securities
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unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
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unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
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unself-righteousness
unself-sacrificial
unself-sacrificially
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
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unshaken confidence
unsheath your weapon
unsighed-for
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unskilled labor
unskilled laborer
unskillful person
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unsteady market
unstopper your ears
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unthought-of
unthought-on
unthought-out
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untie the purse strings
untie your hands
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until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
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untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
versed in
unwanted person
unwarranted demand
unwed condition
unwed state
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unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwitting disclosure
unworm-eaten
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unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
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up against it
up ahead
up and about
up and around
up and at ‘em
up and coming
up and die
up and do
up and doing
up and down
up and go
up attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up on
up on end
up quark
up right
up steps
up the creek
up the river
up the spout
up the wind
up till
up to
up to date
up to expectation
up to grade
up to now
up to par
up to scratch
up to snuff
up to standard
up to the ears
up to the elbows
up to the eyes
up to the hilt
up to the mark
up to the minute
up to the notch
up to the present
up to the time of
up to this time
up to your ears
up to your ears in
up to your ears in debt
up to your elbows
up to your elbows in
up to your neck in
up town
up your alley
up your pay
up your sleeve
up your street
up-
up-a-daisy
up-anchor
up-and
up-and-coming
up-and-comingness
up-and-doing
up-and-down
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up-and-downness
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up-and-under
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up-bow sign
up-chuck
up-country
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up-grade
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upright-standing
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upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
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upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
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upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
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upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
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ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
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uranosouranic oxide
uratic arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
ursine howler
urucu-rana
urucuri iba
usar grass
usara root
use a light hand
use a light rein
use advisedly
use an experimental sample
use as a doormat
use as a meal ticket
use badly
use district
use faulty grammar
use for your own ends
use force
use force upon
use hindsight
use ill
use inadmissible grammar
use inappropriate grammar
use informal speech
use informal style
use inheritance
use language
use loosely
use materials
use money
use of words
use one's head
use radar
use reason
use tax
use terror tactics
use terrorist tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
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used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
usher in
usher into the world
usher-in
using up
using-ground
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usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut supra
uterine brother
uterine kin
uterine sister
utero-
uti possidetis
utile dulci
utility man
utility plane
utility player
utility pole
utility room
utility sash
utmost extent
utmost height
uto-aztecan
utopian socialism
utopian socialist
utter a caveat
<table>
<thead>
<tr>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
<th>Term</th>
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<tbody>
<tr>
<td>utter a judgment</td>
<td>utter a mot</td>
<td>utter bar</td>
<td>utter barrister</td>
<td>utter darkness</td>
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<tr>
<td>utter defeat</td>
<td>utter rout</td>
<td>utter threats against</td>
<td>utterance string</td>
<td>utterly attentive</td>
</tr>
<tr>
<td>utterly detest</td>
<td>uva grass</td>
<td>uva-ursi</td>
<td>uvi yam</td>
<td>uviol glass</td>
</tr>
<tr>
<td>uviol lamp</td>
<td>uzara root</td>
<td>v aux</td>
<td>v sign</td>
<td>v-day</td>
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<tr>
<td>v-eight</td>
<td>v-engine</td>
<td>v-particle</td>
<td>vCechy</td>
<td>vCeskd</td>
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<td>vCeskoslovensko</td>
<td>va’ via</td>
<td>va-et-vien</td>
<td>va-t’-en</td>
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<td>vacant possession</td>
<td>vacant post</td>
<td>vacant-brained</td>
<td>vacant-eyed</td>
<td>vacant-headed</td>
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<td>vacant-minded</td>
<td>vacant-mindedness</td>
<td>vacant-seeming</td>
<td>vacation barrister</td>
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<td>vacation church school</td>
<td>vacation school</td>
<td>vaccinal fever</td>
<td>vaccine lymph</td>
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<tr>
<td>vaccine point</td>
<td>vaccine rash</td>
<td>vaccine therapy</td>
<td>vaccino-syphilis</td>
<td></td>
</tr>
</tbody>
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vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
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vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vae victis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
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valedictory address
valence electron
valence electrons
valence formula
valence isomerism
valence number
valence shell
valency electron
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valentine day
valeric acid
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valet de pied
valet-de-chambre
valet-de-place
valiant knight
valid contract
vallary crown
vallate papilla
vallecular canal
valley board
valley breeze
valley flat
valley lily
valley mahogany
valley oak
valley of the shadow of death
valley partridge
valley quail
valley rafter
valley roof
valley tile
valley train
valley white oak
valley wind
valonia oak
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valuation account
valuation survey
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valve body
valve box
valve cage
valve cap
van der Rohe
van der Waals equation
van der Waals forces
van der Waals' forces
van der Weyden
van driver
van load
van loader
van owner
van't Hoff
van-courier
van-foss
van-john
van-winged hawk
vanadic acid
vanadium bronze
vanadium family
vanadium oxide
vanadium steel
vanadous oxide
vandyke brown
vanilla bean
vanilla chica
vanilla extract
vanilla grass
vanilla leaf
vanilla plant
vanilla pudding
vanille ice
vanillyl alcohol
vanish from sight
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
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vantage game
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vantage post
vantage-ground
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vapor cabinet
vapor cloud
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vapor density
vapor engine
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vapor inhaler
vapor jacket
vapor lamp
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vapor plane
vapor pressure
vapor regulator
vapor stove
vapor tension
vapor trail
vapor treatment
vapor tube
vapor valve
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vapor-belted
vapor-braided
vapor-burdened
vapor-clouded
vapor-filled
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various-colored
various-formed
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variscite green
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varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
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vat color
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vat keeper
vat liquor
vat setter
vat waste
vat-dyed
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vau conversive
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vaudeville theater
vault light
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vault rib
vault up
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vaulting cell
vaulting course
vaulting horse
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vector point function
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vector sum
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veer around
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veer short
veering wind
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vegetable alkali
vegetable anatomy
vegetable bezoar
vegetable black
vegetable brimstone
vegetable butter
vegetable calomel
vegetable cheese
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vegetable earth
vegetable egg
vegetable ethiops
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vegetable flannel
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vegetable soup
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vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
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vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
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vehement action
vehicle tank
vehicular tunnel
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veil-hid
veil-wearing
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veiled threat
veiled voice
vein claim
vein dike
vein islet
vein quartz
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vein-healing
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velar-pharyngeal
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veld sickness
veld sore
veld-
veld-kost
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vellum binding
vellum cloth
vellum form
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vellum-leaved
vellum-papered
vellum-written
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velocity function
velocity head
velocity microphone
velocity modulation
velocity of circulation
velocity of money
velocity peak
velocity potential
velocity ratio
velocity screen
velocity stage
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velvet ash
velvet bean
velvet bent
velvet bur
velvet cap
velvet carpet
velvet cork
velvet darkness
velvet dock
velvet duck
velvet finish
velvet fish
velvet flower
velvet glove
velvet grass
velvet green
velvet groundsel
velvet head
velvet leaf
velvet leather jacket
velvet moss
velvet osier
velvet paper
velvet plant
telvet rug
telvet runner
telvet scoter
telvet sponge
telvet stout
telvet tree
telvet violet
telvet-banded
telvet-bearded
telvet-black
telvet-caped
telvet-clad
telvet-leaved
telvet-pile
telvet-suited
telv-
tela cava
tela contracta
telae contractae
teleng machine
telener grafting
teleneer moth
telerable sir
telerable-looking
telanreal appetite
telanreal desire
telanreal disease
telenian blind
telenian blind reflector
telenian glass
telenian red
telga lo que venga
telengee-crying
telengee-prompting
telengee-sated
telengee-sathed
telengee-seeking
telengee-taking
telni-
telnial sin
telenire de novo
telenire facias
telenire facias de novo
telnom maker
telnom-breathing
telnom-breeding
telnom-cold
venom-fanged
venom-hating
venom-mouthed
venom-spotted
venom-sputtering
venom-venting
venomous-hearted
venomous-looking
venomous-minded
venous blood
venous transfusion
vent drill
vent feather
vent punch
vent stack
vent tank
vent wire
vent your anger
vent your choler
vent your rancor
vent your spleen
vent-hole
vent-peg
ventilate inboard
ventilating apparatus
ventilating blower
ventilating brick
ventilating column
ventilating engineer
ventilating fan
ventilating grate
ventilating jack
ventilating millstone
ventilating shaft
ventilating skylight
ventilating system
ventilation engineer
ventr-
ventral airdome
ventral fin
ventral radome
ventri-
ventricular fibrillation
ventro-
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr-
veratric acid
verb complex
verb phrase
verb sap
verbal adjective
verbal agreement
verbal amnesia
verbal auxiliary
verbal contest
verbal diarrhea
verbal engagement
verbal fallacy
verbal intercourse
verbal noun
verbal response
verbal thrust
verbal translation
verbatim et litteratim
verbena family
verbena oil
verbena violet
verbum sap
verbum sapienti
verbum sat
verd antique
verd gay
verd russe
verd-antique
verdant green
verde antico
verde antique
verdict of acquittal
verdict of guilty
verdict of not guilty
verdigris green
verditer blue
verditer green
verge escapement
verge on
verge paper
verge upon
verge watch
verge-board
verging on
verging upon
vermeil-cheeked
vermeil-dyed
vermeil-rimmed
vermeil-tinctured
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
vermin-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermilion cassis
vernacular language
vernacular speech
vernal equinox
vernal grass
vernal point
vernal-bearded
vernal-blooming
vernal-flowering
vernal-seeming
vernal-tinctured
verner's law
vernier caliper
vernier dial
vernier engine
vernier micrometer
vernier rocket
vernier scale
vernier telescope
vernis Martin
vernix caseosa
vertical synchronizing pulse
vertical union
vertical-grained
vertical-lift mower
vervain family
vervain hummingbird
vervain mallow
vervain sage
vervain thoroughwort
very beginning
very best
very good
very high frequency
very image
very important person
very light
very like
very likely
very low frequency
very many
very model
very much
very much alive
very picture
very pistol
very reverend
very same
very seldom
very thing
very top
very truth
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-urachal
vesico-ureteral
vesico-urethral
vesico-uterine
vesicular exanthema
vesicular stomatitis
vesper bird
vesper mouse
vesper sparrow
vest in
vest with
vest-pocket
vest-pocket camera
vestal virgin
vested authority
vested estate
vested interest
vested interests
vested right
vestibule car
vestibule latch
vestibule of Day
vestibule school
vestibule train
vestibulo-urethral
vestigial transmission
vesting order
vestry board
vestry room
vesuvian jade
vesuvianite jade
vetch-leaved
veteran car
veterans day
veterans hospital
veterans' preference
veterinary corps
veterinary medicine
veterinary science
veterinary surgeon
veterinary surgery
vetiver green
vetivert oil
veto message
veto power
vexation of spirit
vexed question
vi apple
vi et armis
via media
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vicar apostolic
vicar capitular
vicar choral
vicar forane
vicar general
vicar of christ
vicar-choralship
vicar-general
vicar-generalship
vicarage tithe
vicariate apostolic
vicariates apostolic
vicarious authority
vicars capitular
vicars choral
vicars forane
vicars-general
vice admiral
vice chancellor
vice presidency
vice president
vice-squad
vice versa
vice-
vice-abbot
vice-admiral
vice-admirality
vice-admiralship
vice-admiralty
vice-admiralty court
vice-agent
vice-apostle
vice-apostolical
vice-architect
vice-begotten
vice-bishop
vice-bitten
vice-burgomaster
vice-butler
vice-caliph
vice-cancellarian
vice-chair
vice-chairman
vice-chairmen
vice-chamberlain
vice-chancellor
vice-chancellorship
vice-collector
vice-commodore
vice-constable
vice-consul
vice-consular
vice-consulate
vice-consulship
vice-corrupted
vice-county
vice-created
vice-dean
vice-deity
vice-detesting
vice-dictator
vice-director
vice-emperor
vice-freed
vice-general
vice-government
vice-governor
vice-governorship
vice-guilty
vice-haunted
vice-headmaster
vice-imperial
vice-king
vice-kingdom
vice-laden
vice-legate
vice-legateship
vice-librarian
vice-lieutenant
vice-loathing
vice-marred
vice-marshals
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidentship
vice-priest
vice-principal
vice-principalship
vice-prior
vice-prone
vice-protector
vice-provost
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenry
view camera
view finder
view halloa
view halloo
view in a new light
view in all its phases
view mark
view together
view with a jaundiced eye
view with a scornful eye
view with disfavor
view with favor
view with indulgence
view with the mind's eye
view-halloo
view-point
viewing audience
vigesimo-quarto
vigesimo-quartos
vigil light
vigilance committee
vigilance man
vigogne yarn
vile language
vile-born
vile-bred
vile-concluded
vile-fashioned
vile-looking
vile-natured
vile-proportioned
vile-smelling
vile-spirited
vile-spoken
vile-tasting
villa-dotted
villa-dwelling
villa-haunted
village cart
village college
village community
village economy
village green
village of the dead
village reserve
village soviet
village-born
village-dwelling
village-lit
villain
d villanous-looking
villainy-proof
villein socage
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-jaune
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimonii
vindicate a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robbed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
vinegar worm
vinegar-faced
vinegar-flavored
vinegar-generating
vinegar-hearted
vinegar-tart
vineyard plow
vingt-et-un
violent blow
violent change
violent death
violent exercise
violent flow
violent person
violet carmine
violet cress
violet family
violet iris
violet prairie clover
violet ray
violet root
violet root rot
violet sage
violet shell
violet shift
violet tip
violet water
violet wood
violet wood sorrel
violet-black
violet-blind
violet-blindness
violet-bloom
violet-blue
violet-brown
violet-colored
violet-coloured
violet-crimson
violet-crowned
violet-dyed
violet-ear
violet-eared
violet-embroidered
violet-flowered
violet-garlanded
violet-gray
violet-green
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringled
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curved
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue-tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
vis comica
vis inertiae
vis major
vis mortua
vis vitae
vis vitalis
vis viva
vis-a-ns
vis-a-vis
vis-a-visness
viscera itch
visceral leishmaniasis
visceral rheumatism
viscero-
vise cap
vise chuck
vise coupling
visibility curve
visibility meter
visibility unlimited
visibility zero
visible balance
visible horizon
visible radiation
visible spectrum
visible speech
visible-speech data
vision-directed
vision-filled
vision-haunted
vision-seeing
vision-struck
visit at
visit upon
visit with
visitations of providence
visiting book
visiting card
visiting day
visiting fireman
visiting list
visiting nurse
visiting patrol
visiting professor
visiting teacher
visiting ticket
visitor-general
vista of time
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitamin B
vitamin B complex
vitamin B1
vitamin B12
vitamin B2
vitamin B6
vitamin Bc
vitamin C
vitamin D
vitamin D2
vitamin D3
vitamin E
vitamin G
vitamin H
vitamin K
vitamin K1
vitamin K2
viva voce examination
viva-voce
vivaciousness	vivacity
vivacity of imagination
vive l'amour
vive la bagatelle
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix cleste
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
volt-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliampmeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltmeter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
voting trust
voting-right certificate
votive candle
votive mass
votive medal
votive offering
votive office
vouch for
vouched for
voucher check
voucher register
voucher system
vouchers payable
voussoir-shaped
vow-bound
vow-breaking
vow-keeping
vow-pledged
vowel flame
vowel gradation
vowel harmony
vowel mutation
vowel point
vowel quantity
vowel rhyme
vowel system
vows of poverty
vox angelica
vox barbara
vox caelestis
vox et praeterea nihil
vox humana
vox pop
vox populi
vox populi vox Dei
voyage policy
vrai reseau
vt fuze
vulcanite grinding wheel
vulcanite pavement
vulcanized fiber
vulcanized rubber
vulgar era
vulgar establishment
vulgar fellow
vulgar fraction
vulgar language
vulgar latin
wafer-thin
wafer-torn
waffle cloth
waffle ingot
waffle iron
waft on the ear
wag the tongue
wag-on-the-wall
wag-tongue
wage board
wage capital
wage contract
wage control
wage earner
wage earning
wage fixing
wage freeze
wage fund
wage labor
wage level
wage paying
wage peace
wage rate
wage reduction
wage rollback
wage scale
wage slave
wage slavery
wage system
wage war
wage-fund theory
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
waggon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
waist strap
waist tree
waist-deep
waist-high
waist-pressing
waist-slip
wait a minute
wait a second
wait and see
wait and see policy
wait fee
wait for
wait for something to turn up
wait impatiently
wait it out
wait on
wait on hand and foot
wait out the market
wait service
wait table
wait to see how the cat jumps
wait to see how the wind blows
wait up
wait up for
wait upon
wait with bated breath
wait-a-bit
wait-awhile
waiter on Providence
waiter-on
waiting concealed
waiting for
waiting game
waiting it out
waiting list
waiting maid
waiting man
waiting period
waiting room
waiting woman
waiver of premium
wake current
wake dirge
wake up
wake-robin
wake-up
wakeless sleep
waking dream
waking time
waldorf salad
wale knot
wale shore
walk a middle path
walk all over
walk away
walk away with
walk clerk
walk hand in hand with
walk humbly with your God
walk in darkness
walk in the shoes of
walk in your sleep
walk into
walk of life
walk off
walk off with
walk off with the game
walk on air
walk on eggshells
walk on hot coals
walk out
walk out on
walk over
walk over the course
walk the earth
walk the plank
walk the straight path
walk the tracks
walk the waters
walk up
walk-around
walk-down
walk-in
walk-in apartment
walk-in closet
walk-on
walk-over
walk-through
walk-up
walker-on
walkie-lookie
walkie-talkie
walking bass
walking beam
walking boat
walking crane
walking dead man
walking delegate
walking encyclopedia
walking engine
walking excursion
walking fern
walking fish
walking gentleman
walking lady
walking leaf
walking line
walking mort
walking papers
walking part
walking phallic
walking pipe
walking plow
walking scow
walking skeleton
walking staff
walking stick
walking straw
walking sword
walking toad
walking tour
walking twig
walking tyrant
walking wheel
walking-out
walking-stick
walking-stick palm
walking-sticked
walky-talkies
walky-talky
wall anchor
wall arcade
wall barley
wall bars
wall bearing
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall salt peter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-cheeked
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-cheeked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
waning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav'd
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war eagle
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-apparelled
war-blasted
war-breathing
war-breeding
war-broken
war-denouncing
war-dight
war-disabled
war-dreading
war-fain
war-famed
war-god
war-goddess
war-hawk
war-horse
war-savings certificate
war-savings stamp
war-tax stamp
war-time
war-weary
war-whoop
war-wolf
warble fly
warbler green
warbling vireo
ward heeler
ward hill
ward of the state
ward off
ward politics
ward-walk
warden court
warden pie
wardian case
warding file
wardmote court
wardmote quest
wardour-street
wardrobe bed
wardrobe case
wardrobe dealer
wardrobe trunk
ware cleaner
ware goose
ware grinder
ware sorter
warehouse bond
warehouse boy
warehouse clerk
warehouse foreman
warehouse receipt
warehouse sorter
warehouse truck
warlike spirit
warm as toast
warm assent
warm body
warm color
warm friend
warm friendship
warm front
warm heart
warm imagination
warm man
warm over
warm sector
warm spot
warm spring
warm temper
warm the bency
warm the blood
warm the cockles of the heart
warm the spirits
warm up
warm weather
warm welcome
warm work
warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warmed-up
warming house
warming pad
warming pan
warming-pan
warming-up
warminster broom
warmth of color
warmth of feeling
warmth of heart
warn against
warning coloration
warning lever
warning piece
warning sign
warning signal
warp and weft
warp and woof
warp beam
warp frame
warp knit
warp knitting
warp lace
warp land
warp net
warp roll
warp sizer
warp stitch
warp tier
warp-knit
warp-knitted
warp-net frame
warp-proof
warped conception
warped judgment
warping bank
warping bridge
warping chock
warping hook
warping-frame
warple way
warrant of arrest
warrant of attorney
warrant officer
warrant trying
warrants off
warrants on
warranty deed
warrior ant
warrior bush
warsaw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
warty egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
washable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up
washing bear
washing bottle
washing crystal
washing engine
washing equipment
washing machine
washing maid
washing out
washing pot
washing powder
washing soda
washing tub
washing up
washing-up
washington pie
washington's birthday
washout process
washrag gourd
wasp ant
wasp bee
wasp beetle
wasp fly
wasp nest
wasp spider
wasp waist
wasp's nest
wasp-barbed
wasp-minded
wasp-stung
wasp-waisted
wasp-waistedness
wassail bowl
wassail cup
wassermann reaction
wassermann test
waste away
waste baling
waste bank
waste bin
waste book
waste box
waste boy
waste breaker
waste bundler
waste heat
waste leaf
waste lot
waste matter
waste mold
waste no words
waste nut
waste of breath
waste of labor
waste of time
waste pallet
waste pipe
waste product
waste the opportunity
waste the precious hours
waste time
waste time in regret
waste waste
waste well
waste your breath
waste-cleaning
waste-dwelling
waste-heat boiler
waste-heat drier
waste-paper
waste-thrift
waste-wax process
wasted away
wasted loins
wastepaper basket
wastes of outer space
wasting asset
wasting away
wasting disease
wasting palsy
watch adjuster
watch and wait
watch and ward
watch bell
watch bracelet
watch cap
watch chain
watch cleaner
watch coat
watch crystal
watch fire
watch fob
watch for
watch for your moment
watch glass
watch guard
watch it
watch meeting
watch movement
watch night
watch officer
watch out
watch out for
watch over
watch pocket
watch repairer
watch screw thread
watch spring
watch tackle
watch television
watch your step
watch your weight
watch-glass
watch-making
watch-night service
watchet-colored
watchful eye
watchful waiting
watching and waiting
watching brief
watching for
watching rate
watchman beetle
watchman's clock
watchman's rattle
water adder
water agrimony
water aloe
water arum
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blaster
water bloom
water blue
water boat
water boatman
water bog rush
water bomb
water bottle
water bouget
water boy
water brash
water breather
water budget
water buffalo
water bug
water butt
water caltrop
water cannon
water carrier
water channel
water chestnut
water chinquapin
water clock
water closet
water color
water conservation
water cooler
water crake
water cress
water crowfoot
water cure
water cycle
water diviner
water dog
water down
water dropwort
water farmer
water fern
water fever
water flag
water flea
water flow
water fountain
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water-base paint
water-bath
water-bearer
water-bearing
water-beaten
water-bed
water-bind
water-borne
water-bound
water-brain
water-break
water-breathing
water-broken
water-buck
water-butt
water-can
water-carriage
water-carrier
water-cart
water-caster
water-clock
water-closet
water-color
water-colored
water-colorist
water-colour
water-commanding
water-consolidated
water-cool
water-cooled
water-cress
water-cressy
water-cure
water-dog
water-drinker
water-drinking
water-drop
water-dwelling
water-engine
water-fast
water-fennel oil
water-finished
water-flood
water-flowing
water-free
water-front
water-fronter
water-furrow
water-gall
water-galled
water-gas
water-gas tar
water-gate
water-gild
water-girt
water-glass
water-glass painting
water-gray
water-growing
water-guel
water-guelish
water-hammer
water-hen
water-hole
water-horse
water-ice
water-inch
water-jacket
water-jacketing
water-jelly
water-jet
water-laid
water-lane
water-level
water-lily
water-lily family
water-lily tree
water-line
water-line model
water-lined
water-living
water-logged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
watered stock
watered-down
waterglass painting
watering can
watering hole
watering place
watering pot
watering-place
watering-pot
watering-pot shell
waterless cooker
waterproofing salt
waters of Lethe
waters of bitterness
waters of oblivion
watertight integrity
watertube boiler
watery grave
watery-colored
watery-eyed
watery-headed
watt current
watt-hour
watt-hour meter
watt-second
wattle and dab
wattle and daub
wattle bark
wattle crow
wattled bee eater
wattled crow
wattled honey eater
wattled lapwing
wattled stare
wattless current
wave a flag
wave a wand
wave antenna
wave band
wave changer
wave cyclone
wave down
wave drag
wave equation
wave form
wave front
wave function
wave guide
wave mechanics
wave molding
wave motion
wave number
wave phenomenon
wave scroll
wave surface
wave system
wave telegraphy
wave telephony
wave the arms
wave the bloody shirt
wave the hand
wave the white flag
wave theory
wave top
wave train
wave trap
wave wheel
wave winding
wave-cut
wave-cut platform
wave-encircled
wave-form
wave-form theory
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
waw consecutive
waw conversive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privet
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
wax-extracting
wax-featured
wax-finished
wax-forming
wax-headed
wax-jointed
wax-lighted
wax-polished
wax-producing
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we’ll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak-headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak
weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
wear the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wear your heart upon your sleeve
wear-out
wearer of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
wearing course
wearing down
wearisome sameness
wearisome trip
weary for
weary of life
weary to death
weary unto death
weary waste
weary-foot
weary-footed
weary-laden
weary-looking
weary-winged
weary-worn
weasel cat
weasel coot
weasel lemur
weasel out
weasel spider
weasel word
weasel words
weasel-faced
weasel-worded
weather anchor
weather back
weather balloon
weather bow
weather box
weather breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast
weather forecaster
weather front
weather gall
weather gauge
weather helm
weather house
weather instrument
weather joint
weather map
weather out
weather prophet
weather rail
weather reconnaissance
weather reconnaissance plane
weather report
weather roll
weather satellite
weather science
weather scientist
weather sheet
weather ship
weather side
weather signal
weather slating
weather stain
weather station
weather strip
weather stripping
weather tack
weather the storm
weather tide
weather vane
weather wheel
weather wisdom
weather-battered
weather-beaten
weather-bitt
weather-bitten
weather-bound
weather-breeding
weather-driven
weather-eaten
weather-eye
weather-fagged
weather-fast
weather-fend
weather-free
weather-glass
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-stripped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
web-toed
web-winged
web-worked
webbing moth
weber turn
wedded bliss
wedded pair
wedded state
wedded status
wedded to
wedded to poverty
wedded wife
wedding anniversary
wedding attendant
wedding breakfast
wedding cake
wedding canopy
wedding chest
wedding clothes
wedding day
wedding dinner
wedding flower
wedding gown
wedding guest
wedding journey
wedding knot
wedding march
wedding party
wedding ring
wedding sheet
wedding song
wedding veil
wedge bone
wedge character
wedge gauge
wedge gearing
wedge heel
wedge in
wedge-bearing
wedge-billed
wedge-form
wedge-formed
wedge-shaped
wedge-tailed
wedge-tailed dove
wedge-tailed eagle
wedge-tailed gull
wedge-tailed shearwater
wedged-tailed
wedging crib
wee bit
wee doch-an-dorrach
wee folk
wee tot
wee-wee
weed killer
weed out
weed tree
weed-choked
weed-cutting
weed-entwined
weed-fringed
weed-grown
weed-hidden
weed-hook
weed-hung
weed-killer
weed-killing
weed-ridden
weed-spoiled
weeded out
weeder clips
weeder hoe
weedy-bearded
weedy-haired
weedy-looking
week work
week-end
week-long
week-old
week-work
weekend bag
weekly newspaper
weekly payments
weeny-bopper
weep for
weep hole
weep over
weep with
weep with them that weep
weeping and gnashing of teeth
weeping ash
weeping beech
weeping cross
weeping eczema
weeping golden bell
weeping honey locust
weeping lantana
weeping myall
weeping pea tree
weeping willow
weeping-ripe
weese-allan
weet-weet
weft fork
weft knitting
weft sorter
weft-knit
weft-knitted
weigh against
weigh anchor
weigh beam
weigh down
weigh heavy
weigh heavy on
weigh heavy upon
weigh in
weigh in the balance
weigh lightly
weigh on
weigh one thing against another
weigh out
weigh scales
weigh upon
weigh with
weigh you down
weigh your words
weigh-bridge
weigh-in
weigh-out
weigh-scale
weighbar shaft
weighed down
weighed upon
weighing down
weighing instrument
weighing instruments
weighing machine
weighing-in
weighing-out
weight cloth
weight control
weight density
weight down
weight down with
weight down with ornament
weight lifter
weight lifting
weight playing
weight voltameter
weight watcher
weight-bearing
weight-carrying
weight-lifting
weight-measuring
weight-raising
weight-resisting
weight-watch
weight-watching
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statist
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
cwell borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accommodated
well-accompanied
well-accomplished
well-accorded
well-according
well-acquainted
well-accumulated
well-accredited
well-achieved
well-acknowledged
well-acted
well-addicted
well-addressed
well-adjusted
well-administered
well-admitted
well-adopted
well-adorned
well-advanced
well-adventured
well-advertised
well-advertized
well-advised
well-advocated
well-affected
well-affectedness
well-affectioned
well-affirmed
well-afforded
well-aged
well-agreed
well-agreeing
well-aimed
well-aired
well-alleged
well-allied
well-allotted
well-allowed
well-alphabetized
well-altered
well-amended
well-amused
well-analysed
well-analyzed
well-ancestored
well-anchored
well-aneal
well-ankled
well-annealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-appareled
well-apparelled
well-appearing
well-applauded
well-applied
well-appointed
well-appointedly
well-appointedness
well-appreciated
well-approached
well-appropriated
well-approved
well-arbitrated
well-arched
well-argued
well-armed
well-armored
well-armoured
well-aroused
well-arranged
well-arrayed
well-articulated
well-ascertained
well-assembled
well-asserted
well-assessed
well-assigned
well-assimilated
well-assisted
well-associated
well-assorted
well-assumed
well-assured
well-attached
well-attained
well-attempered
well-attempted
well-attended
well-attending
well-attested
well-attired
well-attributed
well-audited
well-authenticated
well-authorized
well-averaged
well-avoided
well-awakened
well-awarded
well-aware
well-baby clinic
well-backed
well-baked
well-balanced
well-balanced mind
well-baled
well-bandaged
well-bang
well-banked
well-barbered
well-bargained
well-base rim
well-based
well-bathed
well-batted
well-bearing
well-beaten
well-becoming
well-bedded
well-befitting
well-begotten
well-begun
well-behated
well-behaved
well-being
well-beknown
well-believed
well-believing
well-beloved
well-beneficed
well-bent
well-beseemingly
well-bespooken
well-bested
well-bestowed
well-blacked
well-blended
well-blent
well-cloaked
well-cloistered
well-closed
well-closing
well-clothed
well-coached
well-coated
well-coined
well-collected
well-colonized
well-colored
well-coloured
well-combed
well-combined
well-commanded
well-commenced
well-commended
well-committed
well-communicated
well-compacted
well-compared
well-compassed
well-compensated
well-compiled
well-completed
well-complexioned
well-composed
well-comprehended
well-concealed
well-conceded
well-conceived
well-concentrated
well-concerted
well-concluded
well-concocted
well-concorded
well-condensed
well-conditioned
well-conducted
well-conferred
well-confessed
well-confided
well-confirmed
well-connected
well-conned
well-consenting
well-conserved
well-considered
well-consoled
well-consorted
well-constituted
well-constricted
well-constructed
well-construed
well-contained
well-content
well-contented
well-contested
well-continued
well-contracted
well-contrasted
well-contrived
well-controlled
well-conveyed
well-convinced
well-cooked
well-cooled
well-coordinated
well-copied
well-corked
well-corrected
well-corseted
well-costumed
well-couched
well-counseled
well-counselled
well-counted
well-counterfeited
well-coupled
well-courted
well-covered
well-cowed
well-crammed
well-crated
well-credited
well-cress
well-crested
well-criticized
well-crocheted
well-cropped
well-crossed
well-crushed
well-cultivated
well-cultured
well-curbed
well-cured
well-curl
well-curried
well-curved
well-cushioned
well-cut
well-cutting
well-damped
well-danced
well-darkened
well-darned
well-dealing
well-dealt
well-debated
well-deceived
well-decided
well-deck
well-decked
well-declared
well-decorated
well-decreed
well-deeded
well-deemed
well-defended
well-deferred
well-defined
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
well-depicted
well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-deserver
well-deserving
well-deservingness
well-designated
well-designed
well-designing
well-desired
well-destroyed
well-developed
well-devised
well-diagnosed
well-diffused
well-digested
well-directed
well-disbursed
well-disciplined
well-discounted
well-discussed
well-disguised
well-dish
well-dispersed
well-displayed
well-disposed
well-disposedly
well-dispositioned
well-disputed
well-dissected
well-dissembled
well-dissipated
well-distanced
well-distinguished
well-distributed
well-diversified
well-divided
well-divined
well-documented
well-doer
well-doing
well-domesticated
well-dominated
well-done
well-dosed
well-drafted
well-drain
well-drained
well-dramatized
well-drawn
well-dressed
well-dried
well-drilled
well-driven
well-drugged
well-dunged
well-dusted
well-dying
well-eared
well-earned
well-earthed
well-eased
well-economized
well-edited
well-educated
well-effected
well-elaborated
well-elevated
well-eliminated
well-embodied
well-emphasized
well-employed
well-enacted
well-enchanting
well-encountered
well-encouraged
well-ended
well-endorsed
well-endowed
well-enforced
well-engineered
well-engraved
well-enlightened
well-entered
well-entertained
well-entitled
well-enumerated
well-enveloped
well-equipped
well-erected
well-escorted
well-essayed
well-established
well-esteemed
well-estimated
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well-evidenced
well-examined
well-executed
well-exemplified
well-exercised
well-exerted
well-exhibited
well-expended
well-experienced
well-explained
well-explicated
well-exploded
well-exposed
well-expressed
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well-faced
well-faded
well-famed
well-fancied
well-farmed
well-fashioned
well-fastened
well-fatted
well-favored
well-favoredly
well-favoredness
well-favoured
well-favouredness
well-feasted
well-feathered
well-featured
well-fed
well-feed
well-feigned
well-felt
well-fenced
well-fended
well-fermented
well-fielded
well-filed
well-filled
well-filmed
well-filtered
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well-fined
well-finished
well-fitted
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well-fixed
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well-flattered
well-flavored
well-flavoured
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well-fleeced
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well-floored
well-floured
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well-folded
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well-fooled
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well-forewarned
well-forewarning
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well-formulated
well-fortified
well-fought
well-found
well-founded
well-foundedly
well-foundedness
well-framed
well-fraught
well-freckled
well-freighted
well-frequentated
well-friended
well-frightened
well-fruited
well-fueled
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well-furnishedness
well-furred
well-gained
well-gaited
well-gardened
well-garmented
well-garnished
well-gathered
well-geared
well-generalled
well-gifted
well-girt
well-glossed
well-gloved
well-glued
well-going
well-gotten
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well-graced
well-graded
well-grained
well-grassed
well-gratified
well-graveled
well-gravelled
well-graven
well-greased
well-greaved
well-greeted
well-groomed
well-groomedness
well-grounded
well-grounded hope
well-grouped
well-grown
well-guaranteed
well-guarded
well-guessed
well-guided
well-guiding
well-guyed
well-hained
well-haired
well-hallowed
well-hammered
well-handicapped
well-handled
well-hardened
well-harnessed
well-hatched
well-havened
well-hazarded
well-head
well-headed
well-healed
well-heard
well-hearted
well-heated
well-hedged
well-heel
well-helped
well-hemmed
well-hewn
well-hidden
well-hinged
well-hit
well-hoarded
well-hole
well-holed
well-hoofed
well-hooped
well-horned
well-horsed
well-housed
well-hued
well-humbled
well-humbugged
well-humored
well-humoured
well-hung
well-husbanded
well-iced
well-identified
well-ignored
well-illustrated
well-imagined
well-imitated
well-immersed
well-implied
well-imposed
well-impressed
well-improved
well-improvised
well-inaugurated
well-inclined
well-included
well-incurred
well-indexed
well-indicated
well-inferred
well-informed
well-inhabited
well-initiated
well-inscribed
well-inspected
well-installed
well-instance
well-instituted
well-instructed
well-insulated
well-insured
well-integrated
well-intended
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well-interpreted
well-interviewed
well-introduced
well-invented
well-invested
well-investigated
well-ironed
well-irrigated
well-itemized
well-joined
well-jointed
well-judged
well-judging
well-judgingly
well-justified
well-kempt
well-kenned
well-kent
well-kept
well-kindled
well-knit
well-knitted
well-knotted
well-knowing
well-knowledged
well-known
well-knowledged
well-known fact
well-labeled
well-labored
well-laboring
well-laboured
well-laced
well-laden
well-laid
well-languaged
well-larded
well-launched
well-laundered
well-leaded
well-learned
well-leased
well-leaved
well-matured
well-meeker
well-meaning
well-meaningly
well-meaningness
well-meant
well-measured
well-membered
well-mended
well-merited
well-met
well-metalled
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well-milked
well-mingled
well-minted
well-mixed
well-modeled
well-modified
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well-moduled
well-moneyed
well-moralized
well-motivated
well-motived
well-moulded
well-mounted
well-mouthed
well-named
well-narrated
well-natured
well-naturedness
well-navigated
well-near
well-necked
well-needed
well-negotiated
well-neighbored
well-nicknamed
well-nigh
well-nosed
well-noted
well-nourished
well-nursed
well-nurtured
well-oared
well-obeyed
well-observed
well-occupied
well-off
well-officered
well-oiled
well-omened
well-omitted
well-operated
well-opinioned
well-ordered
well-ordered set
well-ordering theorem
well-organised
well-organized
well-oriented
well-ornamented
well-ossified
well-outlined
well-overseen
well-packed
well-paid
well-painted
well-paired
well-paneled
well-paragraphed
well-parceled
well-parked
well-past
well-patched
well-patrolled
well-patronised
well-patronized
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well-pensioned
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well-perceived
well-perfected
well-performed
well-persuaded
well-philosophized
well-photographed
well-picked
well-pictured
well-piloted
well-pitched
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well-planned
well-planted
well-played
well-plead
well-pleased
well-pleasedly
well-pleasedness
well-pleasing
well-pleasingness
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well-plotted
well-plowed
well-plucked
well-plumaged
well-plumed
well-pointed
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well-polished
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well-pondered
well-posed
well-positioned
well-possessed
well-posted
well-postponed
well-practiced
well-predicted
well-prepared
well-preserved
well-pressed
well-pretended
well-priced
well-primed
well-principled
well-printed
well-prized
well-professed
well-prolonged
well-pronounced
well-prophesied
well-proportioned
well-prosecuted
well-protected
well-proved
well-proven
well-provendered
well-provided
well-represented
well-reprinted
well-reputed
well-requited
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well-respected
well-rested
well-restored
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well-reviewed
well-revised
well-rewarded
well-rhymed
well-ribbed
well-ridden
well-rigged
well-ringed
well-ripened
well-risen
well-risked
well-roasted
well-rode
well-rolled
well-roofed
well-rooted
well-roped
well-rotted
well-rounded
well-rounded periods
well-routed
well-rowed
well-rubbed
well-ruled
well-ruling
well-run
well-running
well-sacrificed
well-saffroned
well-sailing
well-salted
well-sanctioned
well-sanded
well-satisfied
well-saved
well-savoring
well-saying
well-scared
well-scattered
well-scented
well-scheduled
well-schemed
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well-scolded
well-scorched
well-scored
well-screened
well-scrubbed
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well-seated
well-secluded
well-secured
well-seeded
well-seeing
well-seeming
well-seen
well-selected
well-selling
well-sensed
well-separated
well-served
well-set
well-set-up
well-settled
well-sewn
well-shaded
well-shading
well-shafted
well-shaken
well-shaped
well-shapen
well-sharpened
well-shaved
well-shaven
well-sheltered
well-shod
well-shot
well-showered
well-shown
well-sifted
well-sighted
well-simulated
well-sinewed
well-sinking
well-situated
well-sized
well-sketched
well-skilled
well-skinned
well-smelling
well-smoked
well-soaked
well-sold
well-soled
well-solved
well-sorted
well-sounding
well-spaced
well-speaking
well-sped
well-spent
well-spiced
well-splitting
well-spoken
well-sprayed
well-spread
well-spring
well-spun
well-spurred
well-squared
well-stabilized
well-stacked
well-staffed
well-staged
well-stained
well-stamped
well-starred
well-stated
well-stationed
well-steered
well-stirred
well-stitched
well-stocked
well-stopped
well-stored
well-straightened
well-strained
well-strapped
well-stressed
well-stretched
well-striven
well-stroked
well-strung
well-studied
well-stuffed
well-styled
well-subscribed
well-succeeding
well-sufficing
well-sugared
well-suggested
well-suited
well-summarised
well-summarized
well-sunburned
well-sung
well-superintended
well-supervised
well-supplemented
well-supplied
well-supported
well-suppressed
well-sustained
well-swelled
well-swollen
well-systematised
well-systematized
well-tailored
well-taken
well-tamed
well-tanned
well-tasted
well-taught
well-taxed
well-tempered
well-tenanted
well-tended
well-terraced
well-tested
well-thewed
well-thought
well-thought-of
well-thought-out
well-threshed
well-thriven
well-thrown
well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
well-tinted
well-to-do
well-toasted
well-told
well-toned
well-tongued
well-toothed
well-tossed
well-traced
well-traded
well-trained
well-translated
well-trapped
well-traveled
well-travelled
well-treated
well-tricked
well-tryed
well-trimmed
well-trod
well-trodden
well-trunked
well-trussed
well-trusted
well-tuned
well-turned
well-turned periods
well-turned-out
well-tutored
well-twisted
well-typed
well-umpired
well-understood
well-uniformed
well-united
well-upholstered
well-urged
well-used
well-utilized
well-valeted
well-varied
well-varnished
well-veiled
well-ventilated
well-ventured
well-verified
well-versed
well-visualised
well-visualized
well-voiced
well-vouched
well-walled
well-wared
well-warmed
well-warned
well-warranted
well-washed
well-watched
well-watered
well-weaponed
well-wearing
well-weaved
well-weaving
well-wedded
well-weighed
well-weighing
well-whipped
well-wigged
well-willed
well-willer
well-willing
well-winded
well-windowed
well-winged
well-winnowed
well-wired
well-wish
well-wisher
well-wishing
well-witnessed
well-witted
well-won
well-wooded
well-wooing
well-wooled
well-worded
well-worked
well-worked-out
well-worn
well-worn groove
well-woven
well-wreathed
well-written
well-wrought
west-south-west
west-southwest
west-southwesterly
west-southwestward
west-southwestwardly
west-turning
west-winded
west-windy
western diamondb
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
western red cedar
western roll
western sandwich
western swing
western tanager
western wool
western yellow pine
westphalian ham
westward-looking
wet behind the ears
wet blanket
wet bulb
wet cell
wet chinook
wet cleaner
wet compass
wet contact
wet cooper
wet dock
wet down
wet dream
wet fly
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-gig
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumper
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what do you know
what do you know about that
what does it matter
what else is new
what for
what goes up must come down
what happens
what have you
what if
what in the world
what is coming to one
what is coming to you
what is comprised
what is condign
what is contained
what is destined
what is done
what is doomed
what is due
what is fated
what is in the books
what is included
what is merited
what is owing
what is possible
what is proper
what is revealed
what is right
what is to be
what is to come
what it is about
what it takes
what looms
what makes it tick
what makes you tick
what matter
what may be
what might be
what must not be
what of it
what on earth
what ought not be
what ought to be
what ought to be done
what should be
what should not be
what the hell
what time
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
what's-her-name
what's-his-face
what's-his-name
what's-its-name
what-d'ye-call-'em
what-d'ye-call-it
what-d'you-call-it
what-do-you-call-it
what-eer
what-for
what-is-it
what-like
what-you-call-it
what-you-may call-it
what-you-may--call-it
what-you-may-call-'em
whatever comes
whatever may happen
whatever the cost
whats-her-name
whats-his-name
whats-it
whats-its-name
wheat take-all
wheat-head
wheat aphid
wheat aphis
wheat beetle
wheat belt
wheat berry
wheat bread
wheat bug
wheat bulb fly
wheat bulb worm
wheat cake
wheat chafer
wheat cutworm
wheat duck
wheat eel
wheat eelworm
wheat farmer
wheat field
wheat fly
wheat from the chaff
wheat gallfly
wheat germ
wheat grass
wheat jointworm
wheat louse
wheat maggot
wheat meal
wheat midge
wheat mildew
wheat mite
wheat mosaic
wheat moth
wheat pest
wheat pit
wheat plant louse
wheat rosette
wheat rust
wheat sawfly
wheat scab
wheat seed
wheat sheaf
wheat smut
wheat stem
wheat stem rust
wheat thief
wheat thrips
wheat weevil
wheat weigher
wheat-blossoming
wheat-colored
wheat-fed
wheat-growing
wheat-head army worm
wheat-hid
wheat-producing
wheat-raising
wheat-rich
wheat-stem maggot
wheat-stem sawfly
wheat-straw
wheat ear cockle
wheat sel bird
wheatstone bridge
wheel about
wheel and axle
wheel and deal
wheel animal
wheel animalcule
wheel around
wheel back
wheel barometer
wheel base
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whettle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
whing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
whip graftage
whip grass
whip hand
whip handle
whip hoist
whip horse
whip in
whip into shape
whip line
whip maker
whip off
whip on
whip purchase
whip ray
whip rod
whip roll
whip row
whip scorpion
whip snake
whip stall
whip thread
whip top
whip up
whip yarn
whip yourself
whip-
whip-bearing
whip-corrected
whip-cracker
whip-cracking
whip-ended
whip-grafting
whip-hand
whip-jack
whip-lash
whip-marked
whip-poor-will
whip-round
whip-saw
whip-shaped
whip-stick
whip-stitch
whip-tailed
whip-tom-kelly
whip-tongue
whip-up
whip-wielding
whipbelly vengeance
whipcord willow
whiplash injury
whipped cream
whipped up
whipper-in
whipper-snapper
whippers-in
whippet tank
whipping boy
whipping cream
whipping girl
whipping post
whipping top
whipping up
whipping-boy
whipping-snapping
whipping-up
whipsy-derry
whiptail shark
whirl drill
whirl gate
whirl like a dervish
whirl the mind
whirl-
whirl-blast
whirl-shaped
whirligig beetle
whirligig mullet
whirligig of time
whirling dervish
whirling table
whirlpool bath
whirlpool nebula
whirlwinds of tempestuous fire
whirly-
whisk broom
whisk tail
whisk-tailed
whisker boom
whisker jumper
whisker pole
whiskey jack
whiskey smash
whiskey sour
whisky cherry
whisky drinker
whisky jack
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white Mariposa
white Orpington
white Plymouth Rock
white Wyandotte
white acid
white admiral
white alert
white alkali
white ant
white area
white arsenic
white as a lily
white as a sheet
white ash
cisco identity services engine 3.2
white ash herb
white bass
white bay
white bear
white beet
white belt
white birch
white blood cell
white blood corpuscle
white book
white boy
white bread
white bronze
white bryony
white cake
white campion
white cast iron
white cedar
white chip
white clover
white coal
white comparisons
white cooper
white corpuscle
white crab
white crappie
white cross
white currant
white daisy
white damp
white dew
white dutch clover
white dwarf
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white upland aster
white vitriol
white walnut
white water
white water lily
white wax
white way
white whale
white wine
white with age
white wolf
white wood aster
white-acre
white-alder
white-alder family
white-ankled
white-ant
white-anted
white-armed
white-ash
white-backed
white-barked
white-barred
white-beaked
white-bearded
white-bellied
white-berried
white-billed
white-blood
white-blooded
white-blue
white-bodied
white-bone
white-boned
white-bordered
white-bosomed
white-breasted
white-brick
white-browed
white-brown
white-burning
white-capped
white-cell
white-cell blood
white-cheeked
white-chinned
white-churned
white-clad
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-eyes
white-faced
white-faced hornet
white-favored
white-feathered
white-featherism
white-felled
white-flanneled
white-flecked
white-fleshed
white-flower
white-flowered
white-flowing
white-foot
white-footed
white-footed mouse
white-frilled
white-fringed
white-frocked
white-fronted
white-fronted goose
white-fruitied
white-girdled
white-glittering
white-gloved
white-gray
white-green
white-ground
white-haired
white-hairy
white-handed
white-hard
white-hatted
white-headed
white-heart
white-heart hickory
white-hoofed
white-hooved
white-horned
white-horsed
white-hot
white-jacketed
white-laced
white-leaf
white-leaved
white-legged
white-lie
white-lined
white-linen
white-lipped
white-list
white-listed
white-livered
white-liveredly
white-liveredness
white-loaf
white-looking
white-maned
white-mantled
white-marked
white-mooned
white-mottled
white-mouthed
white-mustard
white-mustard oil
white-necked
white-nosed
white-painted
white-paneled
white-petaled
white-pickle
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
white-ribbed
white-ribboned
white-ribboner
white-rinded
white-robbed
white-roofed
white-ruffled
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slayer
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
whitetailed deer
whitewall tire
whitewash job
whitewood bark
whiting bottle
whiting box
whiting brush
whiting can
whiting dabber
whiting filler
whiting furnace
whiting kit
whiting loader
whiting maker
whiting mill
whiting packer
whiting paste
whiting pollack
whiting pout
whiting powder
whiting sponge
whiting time
whiting tin
whitish-blue
whitish-brown
whitish-cream
whitish-flowered
whitish-green
whitish-lavender
whitish-red
whitish-tailed
whitish-yellow
whitley council
whitlow grass
whitlowwort family
whitten tree
whitty-tree
whity-brown
whity-gray
whity-green
whity-yellow
whiz about
whiz kid
whiz off
whiz-bang
whizz-bang
whizzing stick
who cares
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole megillah
whole mess
whole milk
whole note
whole number
whole offering
whole people
whole picture
whole rest
whole schmear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
wicked-eyed
wicked-looking
wicked-minded
wicked-speaking
wicked-tongued
wicker basket
wicker-woven
wicket dam
wicket door
wicket gate
wicket maiden
widhin pear tree
wide apart
wide as a church door
wide awake
wide away
wide berth
wide gauge
wide knowledge
wide margin
wide of the mark
wide open
wide place in the road
wide ration
wide reading
wide world
wide-a-wake
wide-abounding
wide-accepted
wide-angle
wide-angle lens
wide-arched
wide-armed
wide-awake
wide-awake hat
wide-awakeness
wide-banked
wide-bottomed
wide-branched
wide-branching
wide-breasted
wide-brimmed
wide-cast
wide-chapped
wide-circling
wide-climbing
wide-consuming
wide-crested
wide-distant
wide-doored
wide-eared
wide-echoing
wide-elbowed
wide-expanded
wide-expanding
wide-extended
wide-extending
wide-eyed
wide-faced
wide-flung
wide-framed
wide-gaping
wide-gated
wide-girdled
wide-handed
wide-hipped
wide-honored
wide-imperial
wide-jointed
wide-kneed
wide-lamented
wide-leafed
wide-leaved
wide-lipped
wide-met
wide-minded
wide-mindedness
wide-mouthing
wide-necked
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreaded
wide-spreadening
wide-straddling
wide-streeted
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widened the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow’s benefit
widow’s cruse
widow’s dower
widow’s mite
widow’s peak
widow’s walk
widow’s weeds
widow’s-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht’s
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-woggle
wiggly-waggly
wigwag flag
wigwag signal
wicolored flowers
wild West
wild about
wild allspice
wild and woolly
wild animal
wild animals
wild ass
wild basil
wild bean
wild beast
wild beasts
wild bergamot
wild bleeding-heart
wild boar
wild brier
wild calla
wild carrot
wild cat
wild celery
wild cherry
wild chervil
wild clove
wild corn
wild date
wild deer
wild dog
wild duck
wild fig
wild flax
wild flower
wild for
wild fowl
wild geranium
wild ginger
wild goat
wild goose
wild goose chase
wild growth
wild guess
wild hollyhock
wild honeysuckle
wild horse
wild hyacinth
wild hyacin
wild hydrangea
wild imagination
wild indigo
wild ipecac
wild land
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billowing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
wild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
willing or unwilling
willingness to believe
will'o-the-wispish
will'o-the-wispy
willow acacia
willow amsonia
willow apple
willow beauty
willow beetle
willow borer
willow buffer
willow cactus
willow cat
willow catfish
willow chafer
willow charcoal
willow cottonwood
willow family
willow fly
willow gall
willow goldfinch
willow green
willow grouse
willow herb
willow lark
willow leaf
willow leaf beetle
willow louse
willow moth
willow myrtle
willow oak
willow pattern
willow peeler
willow poplar
willow ptarmigan
willow sawfly
willow shoot
willow slug
willow slug caterpillar
willow sparrow
willow thorn
willow thrush
willow tit
willow tree
willow wand
willow warbler
willow wren
willow-bordered
willow-colored
willow-cone
willow-cone gall
willow-fringed
willow-grown
willow-herb
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
wincing driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blazing
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outsanding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
window trimmer
window trimming
window work
window-breaking
window-broken
window-cleaning
window-dress
window-dresser
window-dressing
window-efficiency
window-efficiency ratio
window-opening
window-rattling
window-shop
window-shopper
window-shopping
window-smashing
window-ventilating
windowless monad
windpipe-slitting art
windscreen wiper
windshield wing
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-moutheed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunken
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wink at
wink of sleep
winker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-boding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
winter-proof
winter-proud
winter-pruned
winter-quarter
winter-reared
winter-rig
winter-ripening
winter-seeming
winter-shaken
wire cloth
wire coat
wire communication
wire coverer
wire cutter
wire cutting
wire drawer
wire drawing
wire edge
wire entanglement
wire former
wire galvanizer
wire gauge
wire gauze
wire glass
wire grama
wire grass
wire grating
wire grub
wire gun
wire house
wire lath
wire line
wire ling
wire loop binding
wire mark
wire micrometer
wire money
wire nail
wire netting
wire nut
wire pack
wire plant
wire press
wire radio
wire recorder
wire recording
wire reducer
wire road
wire rod
wire roller
wire room
wire rope
wire ropeway
wire rush
wire saw
wire sculpture
wire service
wire sewer
wire side
wire silver
wire spooler
wire stem
wire stitch
wire stitcher
wire stitching
wire straightener
wire strander
wire tapper
wire tapping
wire tester
wire tightener
wire tinner
wire vine
wire walker
wire wave communication
wire weaver
wire welder
wire wheel
wire winder
wire wool
wire-bending
wire-blocking
wire-borne
wire-bound
wire-brushing
wire-caged
wire-cloth
wire-coiling
wire-crimping
wire-cut
wire-draw
wire-drawer
wire-drawn
wire-edged
wire-feed
wire-feeding
wire-flattening
wire-galvanizing
wire-gauge
wire-grass
wire-guarded
wire-haired
wire-haired pointing griffon
wire-haired terrier
wire-hung
wire-insulating
wire-measuring
wire-mended
wire-netted
wire-pointing
wire-pull
wire-puller
wire-pulling
wire-record
wire-rolling
wire-safed
wire-sewed
wire-sewn
wire-shafted
wire-spun
wire-stitched
wire-straightening
wire-stranding
wire-stretching
wire-stringed
wire-strung
wire-tailed
wire-testing
wire-tightening
wire-tinning
wire-toothed
wire-wheeled
wire-winding
wire-worker
wire-wound
wire-wound resistor
wire-wove
wire-woven
wired glass
wired radio
wired television
wired wireless
wirehaired pointing griffon
wirehaired terrier
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wise man of Chelm
wise man of Gotham
wise old man
wise passiveness
wise saying
wise to
wise up
wise up to
wise-ass
wise-bold
wise-framed
wise-hardy
wise-headed
wise-heart
wise-judging
wise-lipped
wise-reflecting
wise-said
wise-spoken
wise-valiant
wise-worded
wiser head
wish for
wish fulfillment
wish fulfilment
wish on
wish to
wish to goodness
wish upon
wish very much
wish well
wish you joy
wish you luck
wish-bringer
wish-fulfilling
wish-fulfillment
wish-fulfillment fantasy
wish-giver
wish-maiden
wish-wash
wish-washy
wishbone bush
wishbone gaff
wishbone rig
wished-for
wishful belief
wishful thinker
wishful thinking
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit's end
wit-abused
wit-assailing
wit-beaten
wit-cherishing
wit-crack
wit-cracker
wit-drawn
wit-founndered
wit-fraught
wit-gracing
wit-infusing
wit-loving
wit-masked
wit-offended
wit-oppressing
wit-pointed
wit-salted
wit-snapper
wit-starved
wit-stung
wit-worn
witch alder
witch baiter
witch baiting
witch ball
witch bird
witch broom
witch burner
witch burning
witch butter
witch cake
witch chick
witch doctor
witch doctoring
witch doctory
witch doctress
witch fire
witch flounder
witch for water
witch gowan
witch grass
witch hazel
witch hobble
witch hopple
witch hunt
witch hunter
witch knot
witch light
witch lock
witch mania
witch mark
witch master
witch meal
witch moth
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch-elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches' Sabbath
witches' chorus
witches' coven
witches' meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a yellow streak
with abandon
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow’s feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitapat
with heart going pitter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawing room
withe rod
wither away
wither-wrung
withered loins
withhold assent
 withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear or favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-beseen
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwrapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirmed
woe-laden
woe-maddened
woe-revolving
woe-scorning
woe-sprung
woe-stricken
woe-struck
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
wolf down
wolf eel
wolf fish
wolf fruit
wolf grape
wolf herring
wolf in sheep's clothing
wolf in the stomach
wolf madness
wolf moth
wolf note
wolf pack
wolf snake
wolf spider
wolf tooth
wolf tree
wolf willow
wolf's-bane
wolf's-head
wolf-begotten
wolf-boy
wolf-child
wolf-children
wolf-colored
wolf-dog
wolf-eel
wolf-eyed
wolf-gray
wolf-haunted
wolf-headed
wolf-hound
wolf-hunting
wolf-man
wolf-moved
wolf-scaring
wolf-shaped
wolf-slaying
wolf-suckled
wolffian body
wolfram lamp
wolfram ocher
wolfram steel
woman chaser
woman child
woman movement
woman of easy virtue
woman of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-lodged
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
womens' chorus
won ton
won ton soup
wonder about
wonder drug
wonder drugs
wonder whether
wonder-beaming
wonder-bearing
wonder-charmed
wonder-dumb
wonder-exciting
wonder-fed
wonder-hiding
wonder-loving
wonder-mocking
wonder-promising
wonder-raising
wonder-seeking
wonder-sharing
wonder-smit
wonder-smitten
wonder-stirring
wonder-stricken
wonder-striking
wonder-struck
wonder-teeming
wonder-waiting
wonder-work
wonder-worker
wonder-working
wonder-wounded
wonder-writing
wonderful thing
wonders of the world
wondrous strange
wonga-wonga
wont-believer
wont-learn
wont-wait
wont-work
wood acid
wood alcohol
wood almond
wood anemone
wood ant
wood apple
wood aster
wood avens
wood awl
wood baboon
wood barker
wood bass
wood bedstraw
wood bender
wood betony
wood bison
wood block
wood boiler
wood borer
wood broom
wood brown
wood buffalo
wood bundle
wood calamint
wood calker
wood carpet
wood carver
wood carving
wood cell
wood cement
wood checker
wood chess
wood chopper
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood coker
wood collier
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsel
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood ipecac
wood keeper
wood kingfisher
wood laborer
wood lark
wood laurel
wood leopard
wood leopard moth
wood lily
wood loader
wood lock
wood lot
wood louse
wood machine
wood machinist
wood meadow grass
wood meal
wood measurer
wood milling machine
wood mite
wood model
wood molder
wood mouse
wood naphtha
wood nettle
wood nightshade
wood nut
wood nymph
wood offering
wood oil
wood oil tree
wood opal
wood owl
wood packing
wood painting
wood paper
wood parenchyma
wood partridge
wood pavior
wood pea
wood peat
wood pegger
wood pennyroyal
wood peewee
wood pie
wood pigeon
wood pimpernel
wood pitch
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymph
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-queest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
wooden horse
wooden indian
wooden kimono
wooden nickel
wooden overcoat
wooden shoe
wooden shoes
wooden spoon
wooden spoonist
wooden tongue
wooden wedge
wooden-barred
wooden-bottom
wooden-faced
wooden-featured
wooden-headed
wooden-headedness
wooden-hooped
wooden-hulled
wooden-legged
wooden-lined
wooden-pinned
wooden-posted
wooden-seated
wooden-shoed
wooden-sided
wooden-soled
wooden-tined
wooden-walled
wooden-wheeled
woodgate rust
woodland brown
woodland caribou
woodland goldenrod
woodland primrose
woodland star
woodland sunflower
woods and fields
woods colt
woods cranberry
woods phlox
woods run
woodwind choir
woodwind instrument
woodwind quartet
woodwind section
woodworking chisel
woodworking lathe
woody nightshade
woody-stemmed
wooer-bab
wool breaker
wool burler
wool card
wool carder
wool carding
wool classer
wool-clipper
wool-coming
wool-drying
wool-dyed
wool-eating
wool-flock
wool-fringed
wool-gather
wool-gathering
wool-growing
wool-hetchel
wool-laden
wool-lined
wool-oerburdened
wool-pack
wool-packing
wool-pated
wool-picking
wool-producing
wool-rearing
wool-sorter's disease
wool-staple
wool-stapling
wool-white
wool-witted
wool-woofed
wool-work
woolen draper
woolen drapery
woolen mill
woolen-clad
woolen-frocked
woolen-stockinged
woolen-draiper
woolly aphid
woolly bear
woolly beard grass
woolly foot
woolly mammoth
woolly manzanita
woolly worm
woolly-butted
woolly-coated
woolly-haired
woolly-haried
woolly-head
woolly-headed
woolly-headedness
woolly-leaved
woolly-looking
woolly-minded
woolly-mindedness
woolly-pated
woolly-podded
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
wooly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
word-painting
word-perfect
word-pity
word-seller
word-selling
word-slinger
word-slinging
word-splitting
word-stock
word-wounded
words in their best order
words of wisdom
work a change
work a cure
work against
work against time
work as
work as a team
work at
work away
work back
work basket
work both sides of the street
work camp
work clothes
work cure
work curve
work day and night
work double hours
work double tides
work evil
work farm
work for
work for wages
work force
work function
work hard
work horse
work in
work into
work late
work lead
work like a Trojan
work like a cart horse
work like a coal heaver
work like a dog
work like a galley slave
work like a horse
work like a horse to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working asset
working beam
working capital
working card
working class
working day
working dog
working drawing
working face
working fit
working fluid
working force
working gauge
working girl
working hypothesis
working into a lather
working jib
working line
working load
working on
working order
working out a deal
working papers
working party
working pattern
working people
working person
working pit
working plan
working point
working principle
working proposition
working rail
working rod
working rule
working space
working stiff
working strength
working stress
working substance
working toward
working tube
working up
working week
working-capital fund
working-class
working-day
working-man
working-out
workings of the mind
workmen's compensation
workmen's compensation insurance
works committee
works council
works manager
works, the
world ash
world at large
world belt
world beyond the grave
world champion
world communion sunday
world concept
world day of prayer
world economy
world federalism
world federalist
world government
world ground
world island
world language
world line
world myth
world of fashion
world of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world- eminent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world-esteemed
world-excelling
world-exciting
world-famed
world-familiar
world-famous
world-favored
world-fearing
world-felt
world-forgetting
world-forgotten
world-forming
world-forsaken
world-forsaking
world-fretted
world-girdling
world-gladdening
world-governing
world-grasping
world-grieving
world-hailed
world-hardened
world-hating
world-heating
world-helping
world-honored
world-horrifying
world-humiliating
world-imagining
world-improving
world-infected
world-informing
world-involving
world-jaded
world-jeweled
world-joining
world-kindling
world-knowing
world-known
world-lamented
world-lasting
world-leading
world-leveling
world-lighting
world-line
world-linking
world-long
world-loving
world-mad
world-made
world-marked
world-mastering
world-melting
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-noised
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-poisoned
world-pondered
world-populating
world-portioning
world-possessing
world-power
world-practiced
world-preserving
world-prevalent
world-prized
world-producing
world-prohibited
world-protected
world-raising
world-rare
world-read
world-recognized
world-record holder
world-redeeming
world-reflected
world-regulating
world-rejected
world-rejoicing
world-relieving
world-remembered
world-renewing
world-renowned
world-resented
world-respected
world-restoring
world-revealing
world-reviving
world-revolving
world-ridden
world-round
world-rousing
world-roving
world-ruling
world-sacred
world-sacrificing
world-sanctioned
world-sated
world-saving
world-scarce
world-scattered
world-schooled
world-scouring
world-seasoned
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worldly-mindedness
worldly-wise
worlds apart
worlds of
worlds-high
worm abscess
worm along
worm aneurysm
worm bark
worm brood
worm burrow
worm capsule
worm cast
worm conveyer
worm disease
worm drive
worm fence
worm fever
worm gear
worm gearing
worm grass
worm gut
worm in
worm in the apple
worm in the rose
worm lizard
worm medicine
worm moss
worm oil
worm out
worm out of
worm powder
worm punch
worm shell
worm snake
worm tea
worm thread
worm tincture
worm tube
worm wheel
worm wire
worm your way
worm yourself in
worm yourself into
worm's eye view
worm-breeding
worm-cankered
worm-consumed
worm-destroying
worm-driven
worm-eat
worm-eaten
worm-eateness
worm-eater
worm-eating
worm-gear elevator
worm-g geared
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-bodied
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-ruled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-ruled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king's ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-whileness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreak goldenrod
wreath shell
wreath-crowned
wreath-drifted
wreath-festooned
wreath-wrought
wreathe around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wreck-causing
wreck-devoted
wreck-free
wreck-raising
wreck-strewn
wreck-threatening
wrecking bar
wrecking car
wrecking crane
wrecking frog
wrecking pump
wren babbler
wren tit
wren warbler
wren-thrush
wren-tit
wrench fit
wrench forger
wrench from
wrench hammer
wrench head
wrest block
wrest from
wrest out
wrest pin
wrest plank
wresting out
wrestle with
wrestling hold
wrestling match
wrestling meet
wrestling ring
wrestling school
wretched lot
wretched of the earth
wretched-fated
wretched-looking
wretched-witched
wriggle out of
wriggle yourself into
wring from
wring out
wring the heart
wring your hands
wring washer
wringing fit
wringing machine
wringing wet
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
wrinkled-browed
wrinkled-cheeked
wrinkled-leaved
wrinkled-old
wrinkled-shelled
wrinkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
writing expert
writing fluid
writing frame
writing ink
writing lesson
writing machine
writing machines
writing master
writing material
writing materials
writing on the wall
writing pad
writing paper
writing reed
writing room
writing set
writing stamps
writing style
writing system
writing systems
writing table
writing tablet
writing telegraph
writing-table
writing paper
written character
written communication
written constitution
written down
written examination
written hand
written language
written law
written matter
written music
wrong conduct
wrong construction
wrong font
wrong foot
wrong fount
wrong impression
wrong linking
wrong move
wrong name
wrong number
wrong side
wrong side of your face
wrong side out
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
wrong-minded
wrong-mindedly
wrong-mindedness
wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
wrong-way around
wroth money
wroth penny
wroth silver
wrought iron
wrought iron casting
wrought out
wrought up
wrought up by
wrought-iron
wrought-up
wry face
wry mouth
wry-armed
wry-billed
wry-blown
wry-eyed
wry-faced
wry-formed
wry-guided
wry-legged
wry-looked
wry-mouthed
wry-necked
wry-neckedness
wry-nosed
wry-set
wry-tailed
wry-toothed
wu-su
wu-wei
wung-out
wych elm
wych-elm
wych-hazel
wye level
x chromosome
x height
x in
x number
x out
x ray
x rays
x-axis
x-disease
x-ed
x-height
x-high
x-ing
x-line
x-out
x-radiation
x-ray
x-ray astronomy
x-ray crystallography
x-ray photograph
x-ray photography
x-ray star
x-ray therapy
x-ray tube
x-shaped
x-stretcher
x-unit
xanth-
xanthd-
xanthene dye
xanthic acid
xantho-
xanthoproteic acid
xaverian brother
xen-
xenic acid
xeno-
xenon hexafluoride
xenon tetrafluoride
xer-
xero-
xeroderma pigmentosum
xi-particle
xiphi-
xiphoid process
xyl-
xylem parenchyma
xylem ray
xylene blue
xylic acid
xylite oil
xylo-
xyloglyphic artist
xylonic acid
y chromosome
y tile
y-
y-axes
y-axis
y-bake
y-blend
y-blennies
y-blenny
y-blent
y-cast
y-clept
y-end
y-painted
y-pointing
y-rapt
y-scalded
y-ssed
y-warn
ya-ta-ta
yaba bark
yacca gum
yacht berth
yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
yacht ensign
yacht gear
yacht propeller
yacht race
yacht racing
yacht rigging
yacht rope
yacht squadron
yacht-built
yachtman's anchor
yackety-yack
yackety-yak
yackety-yakked
yackety-yakking
yak-yak
yakety-yak
yakety-yakked
yakety-yakking
yakity-yak
yakkety-yak
yam bean
yam family
yam potato
yam stick
yam tree
yam-root
yammer yawp
yang-kin
yankee-doodle
yap at
yapp binding
yard boy
yard cleaner
yard donkey
yard engineer
yard foreman
yard goods
yard grass
yard inspector
yard laborer
yard locomotive
yard lumber
yard of ale
yard porter
yard regulator
yard rope
yard rush
yard scavenger
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
yard up
yard-arm
yard-broad
yard-deep
yard-long
yard-long bean
yard-measure
yard-of-ale
yard-square
yard-thick
yard-wand
yard-wide
yardarm to yardarm
yarding engine
yarn baller
yarn bleacher
yarn boiler
yarn buncher
yarn bundler
yarn carrier
yarn conditioner
yarn croft
yarn dresser
yarn dryer
yarn dyer
yarn finisher
yarn inspector
yarn packer
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spreading
yarn spreader
yarn stretcher
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
ye-makimono
yea sayer
yea vote
yea-and-nay
yea-and-nayish
yea-nay
yea-sayer
yea-saying
yeah-yeah
year after year
year count
year hour
year in
year in and year out
year in year out
year letter
year of grace
year out
year's mind
year-around
year-book
year-born
year-counted
year-daimon
year-demon
year-end
year-long
year-marked
year-old
year-round
yearly meeting
yearn for
yearning for the past
years ago
years of discretion
years old
years on end
yeas and nays
yeast bee
yeast cake
yeast cell
yeast fungus
yeast nucleic acid
yeast plant
yeast powder
yeast spot
yeast-bitten
yeddo hawthorn
yell at
yell bloody murder
yell out
yell to high heaven
yell yourself hoarse
yellow Chartreuse
yellow alert
yellow bell
yellow belly
yellow bile
yellow birch
yellow blindness
yellow book
yellow brass
yellow bush
yellow cake
yellow calla lily
yellow camomile
yellow carmine
yellow cedar
yellow complexion
yellow copper ore
yellow cypress
yellow daisy
yellow dog
yellow enzyme
yellow fever
yellow flag
yellow foxglove
yellow gentian
yellow goatfish
yellow gold
yellow granadilla
yellow grass
yellow grease
yellow honeysuckle
yellow jack
yellow jacket
yellow jasmine
yellow jaundice
yellow jessamine
yellow journal
yellow journalism
yellow journalist
yellow lady's-slipper
yellow lead ore
yellow light
yellow line
yellow locust
yellow loosestrife
yellow madder
yellow man
yellow mandarin
yellow medick
yellow melilot
yellow mercuric oxide
yellow metal
yellow mombin
yellow ocher
yellow pages
yellow perch
yellow peril
yellow perilla
yellow pikeperch
yellow pine
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeced
yellow-fleshed
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruitred
yellow-funneled
yellow-girted
yellow-gloved
yellow-green
yellow-green alga
yellow-haired
yellow-hammer
yellow-handed
yellow-headed
yellow-headed blackbird
yellow-hilted
yellow-horned
yellow-hosed
yellow-jerkined
yellow-labeled
yellow-leaved
yellow-legged
yellow-legger
yellow-legginged
yellow-lettered
yellow-lit
yellow-locked
yellow-lustered
yellow-maned
yellow-marked
yellow-necked
yellow-nosed
yellow-olive
yellow-orange
yellow-painted
yellow-papered
yellow-pinioned
yellow-pyed
yellow-rayed
yellow-red
yellow-ringded
yellow-ringleted
yellow-ripe
yellow-robed
yellow-rooted
yellow-rumped
yellow-sallow
yellow-seal
yellow-sealed
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yeoman service
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yerba buena
yerba mansa
yerba mate
yerba reuma
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yes indeed
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yo-heave-ho
yo-ho
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yoga trance
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yoo-hoo
york rite
yorkshire pudding
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you and me
you are mistaken
you are right
you are wrong
you bet
you bet your boots
you bet your life
you better believe it
you can bank on it
you can bet on it
you can bet your bottom dollar
you can just bet
you can make book on it
you can say that again
you can't go wrong
you don't say
you have another guess coming
you name it
you said a mouthful
you said it
you should live so long
you speak truly
you too
you're all wet
you're darn tootin'
you're not kidding
you're telling me
you're way off
you've got it
you've got me
you've got something there
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1.1832 angle 2.24.4-2.el8_1

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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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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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
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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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File: PSReadLine

https://github.com/lzybkr/PSReadLine
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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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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.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
    }
}
if err != nil {
    // TODO: Handle error.
}
// 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
}
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.
}
defer 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#TestIamPermissionsLicenseCodeRequ
        est.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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"
    computebp "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) {
    httpClient, endpoint, err := httptransport.NewClient(ctx, opts...)             
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()
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)
    if err != nil {
        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()...),
    }
}
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
}
deferr 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{}
return rsp, unm.Unmarshal(buf, rsp)

// 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.TestIamPermissionsResponse, 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
    }

    return nil, err
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
}
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.TestPermissionsResponse{}
return rsp, unm.Unmarshal(buf, rsp)

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
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)
}
(*compute pb.TestPermissionsResponse, 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 *compute pb.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 *compute pb.GetLicenseRequest, opts ...gax.CallOption)
(*compute pb.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 *compute pb.GetIamPolicyLicenseRequest, opts
    ...gax.CallOption) (*compute pb.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 *compute pb.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 *compute pb.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 *compute pb.SetIamPolicyLicenseRequest, opts
    ...gax.CallOption) (*compute pb.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
    *compute pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute pb.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/"),
    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 *licensesRESTClient) 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 *licensesRESTClient) 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 *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 = 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{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, 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 = 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.License{ }

return rsp, unm.Unmarshal(buf, rsp)
}

// 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.Policy, error) {
baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{}
if req != nil && req.OptionsRequestedPolicyVersion != nil {
}
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.Policy{ }
return rsp, unm.Unmarshal(buf, rsp)
}

// 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 *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{
    "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
  }

  return googleapi.NewGeneratedOperation(httpRsp, req, nil, func() error {
    return err
  })
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.License, string, error) {
      resp := &computepb.LicensesListResponse{
        req.PageToken = proto.String(pageToken)
        if req != nil && req.Filter != nil {
        } else if pageSize != 0 {
          req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        params := url.Values{
          if req != nil && req.Filter != nil {
          } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
          }
        }
        return nil, err
    }
    if err := unm.Unmarshal(buf, rsp); err != nil {
      return nil, 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.
if req != nil && req.ReturnPartialSuccess != nil {
}

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 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.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(ctxt 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)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctxt)
// 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 := &compute pb.Policy{}  

return rsp, unm.Unmarshal(buf, rsp)  
}

// 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 *compute pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute pb.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)

  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, unm.Unmarshal(buf, rsp)
}

// LicenseIterator manages a stream of *compute.License.
type LicenseIterator struct {
  items    []*compute.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 []*compute.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() (*compute.License, error) {
  var item *compute.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{} {
  b := it.items
it.items = nil
return b
}

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1.1839 jpillar-backoff 1.0.0

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1.1840 gopkg.in-inf 0.9.1

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jar/org/locationtech/spatial4j/io/jts/JtsBinaryCodec.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/shape/impl/BufferedLine.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/shape/impl/Range.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/shape/impl/InfBufLine.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/context/jts/DatelineRule.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/context/jts/ValidationRule.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/io/BinaryCodec.java
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jar/org/locationtech/spatial4j/io/jackson/ShapeAsGeoJSONSerializer.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/io/jackson/GeometryAsWKTSerializer.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
jar/org/locationtech/spatial4j/io/jackson/ShapesAsWKTModule.java
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* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/exception/UnsupportedSpatialPredicate.java
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* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/context/jts/JtsSpatialContext.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/Circle.java
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* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/LegacyShapeWriter.java
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* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/ShapeIO.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/ShapeReader.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jts/JtsGeoJSONWriter.java
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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1.1844 unf 0.1.4

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1.1845 maven-enforcer-plugin 3.0.0.M3

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1.1846 kerberos 1.17-6ubuntu4.1

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1.1847 iniparse 0.4

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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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1856 jackson 2.9.10
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/*
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 Samba trivial allocation library - new interface

NOTE: Please read talloc_guide.txt for full documentation

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1.1858 libssh 0.9.3 2ubuntu2.2
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    include/libssh/buffer.h
    include/libssh/channels.h
    include/libssh/crc32.h
    include/libssh/crypto.h
    include/libssh/dh.h
    include/libssh/ed25519.h
    include/libssh/gssapi.h
    include/libssh/kex.h
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    include/libssh/legacy.h
    include/libssh/libcrypto.h
    include/libssh/libgcrypt.h
    include/libssh/libssh.h
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    include/libssh/messages.h
    include/libssh/misc.h
    include/libssh/packet.h
    include/libssh/pcap.h
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include/libssh/sftp.h
include/libssh/socket.h
include/libssh/string.h
include/libssh/threads.h
include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
src/kex.c
src/kex1.c
src/legacy.c
src/libcrypto.c
src/libgcrypt.c
src/log.c
src/messages.c
src/packet.c
src/packet1.c
src/packet_crypt.c
src/pcap.c
src/pki_container_openssh.c
src/pki_ed25519.c
src/server.c
src/session.c
src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_scph.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test_pcap.c
tests/test_socket.c

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Files: examples/exec.c
       examples/senddata.c
       examples/CMakeLists.txt
       include/libssh/ssh1.h
       include/libssh/ssh2.h
       tests/authentication.c
       tests/benchmarks/bench1.sh
       tests/benchmarks/bench2.sh
       tests/chmodtest.c
       tests/client/torture_proxycommand.c
       tests/client/torture_sftp_dir.c
       tests/client/torture_sftp_read.c
       tests/cmdline.c
       tests/connection.c
       tests/generate.py
       tests/sftp_stress/main.c
       tests/test_exec.c
       tests/test_ssh_bind_accept_fd.c
       tests/test_tunnel.c
       tests/tests.h
       tests/unittests/torture_buffer.c
       tests/unittests/torture_callbacks.c
       tests/unittests/torture_channel.c
       tests/unittests/torture_init.c
       tests/unittests/torture_isipaddr.c
       tests/unittests/torture_keyfiles.c
       tests/unittests/torture_list.c
       tests/unittests/torture_misc.c
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1.1860 amqp-client 5.9.0

1.1860.1 Available under license:

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Manifest-Version: 1.0
Bundle-SymbolicName: com.rabbitmq.client
Built-By: root
Bnd-LastModified: 1586866456034
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
s.json, com.rabbitmq.utility, io.micrometer.core.instrument; resolution: =optional, javax.naming, javax.naming.directory, javax.net, javax.net.ssl, javax.security.auth.callback, javax.security.sasl, org.slf4j; version="[1.7,2)"

Require-Capability: osgi.ee; filter="(&osgi.ee=JavaSE)(version=1.8)"


Bundle-Name: RabbitMQ Java Client
Bundle-Description: The RabbitMQ Java client library allows Java applications to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Implementation-Version: 5.9.0
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Bundle-Vendor: VMware, Inc. or its affiliates.
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: VMware, Inc. or its affiliates.
Bundle-Version: 5.9.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_242
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
*/opt/cola/permits/1136114760_1613679824.14/0/amqp-client-5-9-0-jar/META-INF/MANIFEST.MF

1.1861 libkcapi 1.2.0 2.el8
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10.module+el8.2.0+5955+6cd70ceb

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Protocol Buffers for Go with Gadgets

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1.1865 postgres:12.2-alpine 12.2

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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
*/
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/WellBehavedMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Present.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/package-info.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/package-info.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/Hashe...
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/MoreObjects.java
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jar/com/google/common/collect/Count.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMultiset.java

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jar/com/google/common/hash/MacHashFunction.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Strings.java
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 */
/**
 * Outer class that exists solely to let us write \@code Partially.GwtIncompatible\} instead of plain
 * \@code GwtIncompatible\}. This is more accurate for \@link Futures\#catching\}, which is available
 * under GWT but with a slightly different signature.
 *
 * \<p\>We can't use \@code PartiallyGwtIncompatible\} because then the GWT compiler wouldn't recognize
 * it as a \@code GwtIncompatible\} annotation. And for \@code Futures\#catching\}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CaseFormat.java
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/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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* jar/com/google/common/collection/UnmodifiableListIterator.java
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* jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
* jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
* jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
* jar/com/google/common/collection/SortedMapDifference.java
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* jar/com/google/common/collection/ForwardingImmutableCollection.java
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* jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
* jar/com/google/common/collection/ForwardingSetMultimap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/ImmutableIntArray.java

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*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODOR(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/

Found in path(s):
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ObjectArrays.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/JdkPattern.java
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*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSequenceReader.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Utf8.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionContext.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Verify.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/AbstractTable.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredMultimapValues.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/HashingInputSteam.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/VerifyException.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Runnables.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeVisitor.java

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  jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/graph/Graphs.java

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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

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jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/JdkBackedImmutableSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Traverser.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableBiMapFauxxerideShim.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SortedMultisets.java
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jar/com/google/common/math/PairedStats.java
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jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/html/package-info.java
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jar/com/google/common/io/ByteArrayDataInput.java
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jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/escape/Escapers.java
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jar/com/google/common/primitives/SignedBytes.java
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jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/reflect/TypeResolver.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/Cut.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AbstractService.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/Platform.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/escape/ArrayBasedEscaperMap.java
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jar/com/google/common/escape/ArrayBasedCharEscaper.java
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jar/com/google/common/collection/RegularImmutableTable.java
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jar/com/google/common/escape/Platform.java
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jar/com/google/common/collection/ImmutableMapKeySet.java
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Additional -
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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.1880 logstash-input-redis 3.7.0

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1.1884 icu4j 62.1

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* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-7f4cf8d/data/prototype.js

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Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-7f4cf8d/java/src/json/ext/Parser.rl

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

2017-01-13 (1.8.6)
* Be compatible with ancient ruby 1.8 (maybe?)
2015-09-11 (1.8.5)
* Be compatible with ruby 2.4.0
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of
the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

-------- (1.8.4) Skipped.

2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of JSON.dump_default_options.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing space_before accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.

2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to JSON::GenericObject to make serialize :some_attribute, JSON::GenericObject work in Rails active models for convenient SomeModel#some_attribute.foo.bar access to serialised JSON data.

2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and JSON::GenericObject. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If JSON::GenericObject is supposed to be automatically deserialised, this has to be explicitly enabled by setting

    JSON::GenericObject.json_creatable = true

as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

2012-11-29 (1.7.6)
* Add GeneratorState#merge alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.
2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

2012-04-28 (1.7.1)
* Some small fixes for building

2012-04-28 (1.7.0)
* Add JSON::GenericObject for method access to objects transmitted via JSON.

2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>, should fix https://github.com/flori/json/issues#issue/119.

2012-02-09 (1.6.5)

2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.

2011-12-01 (1.6.3)
* Support object_class/array_class with duck typed hash/array.

2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in quirks_mode.
* Make JSON.dump and JSON.load methods better cooperate with Rails' serialize method. Just use: serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in: https://github.com/flori/json/pull/103

2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbtt.net> that fixes garbage collection problem
  reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex
  and json/add/rational requires.

2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add as_json methods in json/add/core, so rails can create its json objects
  the new way.

2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json_pure.
* Fix bug in jruby pretty printing.
* Fix bug in object_class and array_class when inheriting from Hash or Array.

2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue

2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz
  <dev@mernen.com>.
* Output full exception message of deep_const_get to aid debugging.
* Fixed an issue with ruby 1.9 Module#const_defined? method, that was
  reported by Riley Goodside.

2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23,
  always create a new object from the state prototype.
* Made pure and ext api more similar again.

2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This
  should reduce problems with to_json method definitions that only have one
  argument.
* Some fixes in the state objects and additional tests.

2010-08-06 (1.4.4)
* Fixes crashes described in http://github.com/flori/json/issues/closed#issue/21 and
  http://github.com/flori/json/issues/closed#issue/23

2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by
  electronicwhisper@github. Thx!

2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with
  Microsoft Visual C possible again.
* Applied patch from devrandorn <c1.github@niftybox.net> in order to allow building of
  json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory
leak, which is fixed in this release.

* Applied 993f261cc8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

2010-04-25 (1.4.1)

* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

2010-04-23 (1.4.0)

* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

2010-04-07 (1.2.4)

* Trigger const_missing callback to make Rails' dynamic class loading work.

2010-03-11 (1.2.3)

* Added a State#[] method which returns an attribute's value in order to increase duck type compatibility to Hash.

2010-02-27 (1.2.2)

* Made some changes to make the building of the parser/generator compatible to Rubinius.

2009-11-25 (1.2.1)

* Added :symbolize_names option to Parser, which returns symbols instead of strings in object names/keys.

2009-10-01 (1.2.0)

* fast_generate now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.

* Better documentation

2009-08-23 (1.1.9)

* Added forgotten main doc file extra_rdoc_files.

2009-08-23 (1.1.8)

* Applied a patch by OZAWA Sakuro<sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.

* Applied patch by okkez_in order to fix Ruby Bug #1768:
* Finally got around to avoid the rather paranoid escaping of ?/ characters in the generator's output. The parsers aren't affected by this change.
  Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

2009-06-29 (1.1.7)

* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
  Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.

* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

2009-05-10 (1.1.6)

* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built
with. This release is just to bump the version number in order to skip the
native gem on rubyforge.
2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler
  <B.Candler@pobox.com> and fixes.
2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by
  Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby
  1.9.
* Improved speed of the code path for the fast_generate method in the pure
  variant.
2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime
  handling: If the nominator and denominator of the offset were divisible by
  each other Ruby's Rational#to_s returns them as an integer not a fraction
  with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while
  remaining backwards compatible.
* Supports ragel &gt;= 6.0 now.
* Corrected some tests.
* Some minor changes.
2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from
  the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable
  the creation of additions by force, in order to treat json texts as data
  while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON
  object if the rails addition is enabled, which is wrong. It now outputs a
  JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported
  by John Evans lgastako@gmail.com. He could produce a crash in the JSON
  generator by returning something other than a String instance from a
  to_json method. I now guard against this by doing a rather crude type
  check, which raises an exception instead of crashing.
2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby
  1.9. I applied them and adapted some of them a bit to run both on 1.8 and
  1.9.
* Introduced a JSON.parse! method without depth checking for people who like
  danger.
* Made generate and pretty_generate methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.

* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the max_nesting feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.

* Piers Cawley <spdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by ?\ as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!

* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object "[ ... ]" or array "[ ... ]" in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby ([ '\t\v\n']), and there are differences in floats and integers (no octals or hexadecimals) as well.
* Added aliases generate and pretty_generate of unparse and pretty_unparse.
* Fixed a test case.
* Catch an Iconv::InvalidEncoding exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!
2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/-/characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.
2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.
2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/CHANGES

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 */

Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/StringDecoder.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/ParserService.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Generator.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Parser.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/ByteListTranscoder.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/Utils.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-7f4cfd8/java/src/json/ext/
7f4cfd8/java/src/json/ext/GeneratorService.java
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Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cfd8-tar-gz/flori-json-
  7f4cfd8/ext/json/ext/generator/generator.c

1.1887 slf4j 1.7.30
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1.1888 busybox 1.33.1

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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/**
**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* `{@link #locateSource detected}` during response rendering. Users can either specify
* a specific entry in the model via the `{@link #setSourceKey sourceKey}` property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See `{@link #getSourceTypes() here}`
* for more details.
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure `{@link #setOutputProperties output properties}`
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
  jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
  jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
  jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-

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  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
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  jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
  jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
  jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/resource/PathResourceResolver.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/function/ServerResponse.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/function/HandlerFilterFunction.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/function/ToStringVisitor.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/support/RequestContext.java
*/
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jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/function/RouterFunction.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/SessionAttributeMethodArgumentResolver.java
*/
* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/PathVariableMethodArgumentResolver.java
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* /opt/cola/permits/116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/condition/PathPatternsRequestCondition.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/view/tiles3/TilesViewResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitterReturnValueHandler.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/resource/AppCacheManifestTransformer.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/resource/ResourceUrlEncodingFilter.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/view/tiles3/TilesViewResolver.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerAdapter.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/ArgumentAware.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.java
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* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /opt/cola/permits/1116954190_1608102512.47/0/spring-webmvc-5-3-2-sources-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
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...
### 1.1898 asm-commons 5.0.4

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```java
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/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/Textifier.java

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*/
/**  
* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
*  
* @param owner  
*    the owner's class name.
* @param access  
*    the method's access flags (see [@link Opcodes]).
* @param name  
*    the method's name.
* @param desc  
*    the method's descriptor (see [@link Type Type]).
* @param mv  
*    the method visitor to which this adapter delegates calls. May
*    be <tt>null</tt>.
* @throws IllegalStateException  
*    If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
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/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 */

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 */
* @param typeRef
* a reference to the annotated type. See {@link TypeReference}.
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within `typeRef`. May be
* `<tt>null</tt>` if the annotation targets `typeRef` as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the `start` array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the `start` array.
* @param desc
* the class descriptor of the annotation class.
*/

Found in path(s):
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  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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  jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/VarInsnNode.java
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  jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/signature/SignatureWriter.java
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  jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/MethodOptimizer.java
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jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
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jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/util/ASMifier.java
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 */
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4.jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4.jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4.jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4.jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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  jar/org/objectweb/asm/commons/package.html
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  jar/org/objectweb/asm/util/package.html
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
* *
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see { @link Opcodes}). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* {link Type#getInternalName() getInternalName()}. May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *    the method visitor to which this adapter delegates calls.
 * @param access
 *    the method's access flags (see {@link Opcodes}).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see {@link Type}).
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/commons/GeneratorAdapter.java

1.1899 jre 17.0.1
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>>> freebsd-base64-4.8
>>> unicode-5.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.1908 microsoft-codeanalysis-csharp

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public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");

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1.1910 powermock-api-mockito-common

1.7.0
1.1911 nspr 4.21.0-2.el8_0

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product of your own. You may embed this Package's interpreter within
an executable of yours (by linking); this shall be construed as a mere
form of aggregation, provided that the complete Standard Version of the
interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as
output from the programs of this Package do not automatically fall
under the copyright of this Package, but belong to whoever generated
them, and may be sold commercially, and may be aggregated with this
Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do
not represent such an executable image as a Standard Version of this
Package.

7. C subroutines (or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
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construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
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WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
# To give due honour to those who have made Perl 5 what it is today,
# here are easily-from-changelogs-extractable people and their
# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
# additions, deletions welcome; send them to perlbug@perl.org, preferably
# as the output of diff(1), diff -u or diff -c between the original and a
# corrected version of this file.
#
# The use of this database for anything else than Perl development
# is strictly forbidden. (Passive distribution with the Perl source
# code kit is, of course, allowed.)
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# This should contain the preferred addresses. Alternate addresses are in
# Porting/checkAUTHORS.pl.
#
# After editing, please run: make test_porting
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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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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1.1920 libxkbcommon 0.9.1 1.el8

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1.1921 perl-mime-base64 3.15-396.el8

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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
- 'Gisle Aas <gisle@activestate.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: MIME-Base64
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
  perl: 5.004
resources:
  repository: https://github.com/gisle/mime-base64
version: 3.15
NAME

MIME::Base64 - Encoding and decoding of base64 strings

SYNOPSIS

use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

DESCRIPTION

This module provides functions to encode and decode strings into and from the base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The following primary functions are provided:

encode_base64( $bytes )

encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function. The first argument is the byte string to encode. The second argument is the line-ending sequence to use. It is optional and defaults to "\n". The returned encoded string is broken into lines of no more than 76 characters each and it will end with $eol unless it is empty. Pass an empty string as second argument if you do not want the encoded string to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes contains characters with code above 255. The base64 encoding is only defined for single-byte characters. Use the Encode module to select the byte encoding you want.

decode_base64( $str )
Decode a base64 string by calling the `decode_base64()` function. This function takes a single argument which is the string to decode and returns the decoded data.

Any character not part of the 65-character base64 subset is silently ignored. Characters occurring after a '=' padding character are never decoded.

If you prefer not to import these routines into your namespace, you can call them as:

```perl
use MIME::Base64 ();
$encoded = MIME::Base64::encode($decoded);
$decoded = MIME::Base64::decode($encoded);
```

Additional functions not exported by default:

```perl
over 4

=item encode_base64url( $bytes )
=item decode_base64url( $str )
```

Encode and decode according to the base64 scheme for "URL applications" [1]. This is a variant of the base64 encoding which does not use padding, does not break the string into multiple lines and use the characters "." and "_" instead of "+" and "/" to avoid using reserved URL characters.

```perl
=item encoded_base64_length( $bytes )
=item encoded_base64_length( $bytes, $eol )
```

Returns the length that the encoded string would have without actually encoding it. This will return the same value as `length(encode_base64($bytes))`, but should be more efficient.

```perl
=item decoded_base64_length( $str )
```

Returns the length that the decoded string would have without actually decoding it. This will return the same value as `length(decode_base64($str))`, but should be more efficient.

=head1 EXAMPLES
If you want to encode a large file, you should encode it in chunks that are a multiple of 57 bytes. This ensures that the base64 lines line up and that you do not end up with padding in the middle. 57 bytes of data fills one complete base64 line (76 == 57*4/3):

```perl
use MIME::Base64 qw(encode_base64);

open(FILE, "/var/log/wtmp") or die "$!";
while (read(FILE, $buf, 60*57)) {
    print encode_base64($buf);
}
```

or if you know you have enough memory

```perl
use MIME::Base64 qw(encode_base64);
local($/) = undef;  # slurp
print encode_base64(<STDIN>);
```

The same approach as a command line:

```perl
perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file
```

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

```perl
perl -MMIME::Base64 -ne 'print decode_base64($_)' <file
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```perl
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "x{FFFF}\n"));
print $encoded;
```

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Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and
code posted to comp.lang.perl <3pd21p86gf@wsinti07.win.tue.nl> by Hans Mulder <hansm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail. Copyright 1991 Bell Communications Research, Inc. (Bellcore)

=head1 SEE ALSO

L<MIME::QuotedPrint>


=cut

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* /opt/cola/permits/1175308840_1624358365.61/0/perl-MIME-Base64-3.15-396.el8-1.src.rpm-cosi-expand-archive-VHZv4FUu/MIME-Base64-3.15.tar.gz-cosi-expand-archive-yMxxjThp/MIME-Base64-3.15/Base64.pm
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This package contains a base64 encoder/decoder and a quoted-printable encoder/decoder. These encoding methods are specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions).

The base64 encoding is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

In order to install and use this package you will need Perl version 5.6 or better. Installation as usual:

perl Makefile.PL
make
make test
make install

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=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPTIS
use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I< MIME (Multipurpose Internet Mail Extensions)> . The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:

=over 4
=item encode_qp( $str)
=item encode_qp( $str, $eol)
=item encode_qp( $str, $eol, $binmode)

This function returns an encoded version of the string ($str) given as argument.

The second argument ($eol) is the line-ending sequence to use. It is optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line breaks" to ensure that no line end up longer than 76 characters. Pass it as "\015\012" to produce data suitable for external consumption. The string "\v\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L< MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.
decode_qp($str)

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

If you prefer not to import these routines into your namespace, you can call them as:

```
use MIME::QuotedPrint ();
$encoded = MIME::QuotedPrint::encode($decoded);
$decoded = MIME::QuotedPrint::decode($encoded);
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the quoted-printable encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```
use MIME::QuotedPrint qw(encode_qp);
use Encode qw(encode);

$encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

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=head1 SEE ALSO

L<MIME::Base64>

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1.1922 xerces-j 2.7.1

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_222
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.12
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-04-12T17:04Z
X-Builder: Maven 3.6.2
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1586711859322
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: http://x-stream.github.io
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.12
1.1927 nghttp2 1.40.0-1build1

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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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Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at: http://voxeolabs.com - additional support towards further developing the TLS API and JSSE provider that appeared in 1.56.

Additional CertPath testing and validation data from the CertPath testing tool developed by cryptosource GmbH and media Transfer AG both located in Darmstadt, Germany. - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

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Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.

Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSL/Keay private keys).

Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.

Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

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Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe&#064;cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

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Waclaw Sierek &lt;waclaw.sierek&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.

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Carmen Bastiaans &lt;cbastian &#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tommasg&#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

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Chris Southern &lt;CSouthern&#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.

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<li>Martin Petraschek &lt;e9526225&#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
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<li>Martin Petraschek &lt;e9526225&#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Mike Bean &lt;mbean&#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
<li>Stef Hoeben &lt; ilsestef&#064;skynet.be &gt; - adding Montgomery multiplication to the BigInteger class.</li>
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<li>Mike Bean &lt;mbean&#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>
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<li>Martin Petraschek &lt;e9526225&#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>
<li>Mike Bean &lt;mbean&#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.
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<li>Elmar Sonnenschein &lt;eso@esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
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<li>Bryan Lovquist &lt;blkl@#64;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
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<li>Matteo Artuso &lt;matartuso@libero.it&gt; - picking up the possible overead in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;eso@esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
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<li>Bryan Lovquist &lt;blkl@#64;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
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<li>Michael H&auml;usler &lt;hausler@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
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<li>Peter Sylvester &lt;Peter.Sylvester#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug &lt;ummmmm#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>François Staes &lt;fstaes#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, path to DH key agreement.</li>
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<li>Perez Paz Luis Alberto &lt;lapererez#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
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<li>Jim Ford &lt;jim#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 certificates.</li>
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<li>Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.5.</li>
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Joni Hakala &lt;jonihakala@604cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, letAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.  
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Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.  
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<li>Ramon Keller &lt;ramon.keller@064gm.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
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<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
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J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelofnaude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;mh@064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;robert.j.moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir@064mail.org&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bounceycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascri@gmail.com&gt; - subjectAlternativeName fix for X.509CertStoreSelector.

Harakiri &lt;harakiri23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kinneringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;rarr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.
Elisabetta Romani &lt;eromani@sogei.it&gt; patch for recognising multiple counter signatures.

Robin Lundgren &lt;rlundgren@#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hrrawat@#064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;lindemann@#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@#064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole@#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom@#064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau@#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilårgnings &lt;markus@#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@#064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info@#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@boah.mcgoo.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis@#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf@hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski@#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.
<li>Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking#064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;trbernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid#064ngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Tim Whittington &lt;Tim.Whittington#orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working arnoud JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
Sergey Tiunov &lt;t5555d@gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio@064mathics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Müller &lt;eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov@gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

Axel VDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student@gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;ampersand064iai.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@064cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts@064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mailto_kb@064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco@064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich &lt;tobias.wich@n-design.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrten &lt;hauke@#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz@#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitzka &lt;ltj.kapitzka@#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;axel-vdb@riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek@#064hält.com&gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;peto@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot &lt;thomas.belot@BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schumann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;MSKnete@#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;tobias.wagner@#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen@bouncycastle@#064lxtrme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for varient keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat &lt;lukasz.deputat&#064gmail.com&gt; Fixed bugs in TlsUtils read methods #BJA-592.

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPOutputFactory to handle stream packets at start of iterated data.

Andrzejacut &lt;https://github.com/aberenguel&gt; Fixed bugs in TlsUtils read methods #BJA-620.

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Andrzejacut &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranski &lt;https://github.com/slawekjaranski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 #BJA-620.

Joseph Naegle &lt;https://github.com/jnaegle&gt; Fixture for PGPObjectFactory to handle stream packets at start of iterated data.

Slawomir Jaranski &lt;https://github.com/slawekjaranski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPOutputFactory to handle stream packets at start of iterated data.

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William Glanton &lt;wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 #BJA-620.

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Slawomir Jaranski &lt;https://github.com/slawekjaranski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking</li>
<li>chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613)</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&&amp;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal()</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well)</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library</li>
<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair</li>
<li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha2Poly1305 prototype</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes</li>
<li>Antoine Touleme &lt;https://github.com/atouleme&gt; Initial implementation of EthereumIESEngine</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine</li>
<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palm&egrave;r@#064truesec.se&gt; Additional improvements to constant time comparisons
<li>René Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

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

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

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

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

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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if 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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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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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
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# This file contains a list of people who've made non-trivial
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# who commit code to the project are encouraged to add their names
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1.1944 openssl_pkcs8_pure 0.0.0.2
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1.1945 logstash-output-cloudwatch 3.0.10
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1.1946 python3-setuptools-wheel 39.2.0-5.el8
1.1946.1 Available under license:
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1.1947 kafka-schema-serializer 5.5.1
1.1947.1 Available under license:
No license file was found, but licenses were detected in source scan.

<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns="http://maven.apache.org/POM/4.0.0"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>

<parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>5.5.1</version>
</parent>

<licenses>
    <license>
        <name>Apache License 2.0</name>
        <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
        <distribution>repo</distribution>
    </license>
</licenses>

<artifactId>kafka-schema-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-serializer</name>

<dependencies>
    <dependency>
        <groupId>org.apache.kafka</groupId>
        <artifactId>kafka_${kafka.scala.version}</artifactId>
        <scope>provided</scope>
    </dependency>
    <dependency>
        <groupId>io.confluent</groupId>
        <artifactId>kafka-schema-registry-client</artifactId>
    </dependency>
    <dependency>
        <groupId>io.confluent</groupId>
        <artifactId>common-config</artifactId>
    </dependency>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

Found in path(s):
* /opt/cola/permits/1257321157_1642800614.05/0/kafka-schema-serializer-5-5-1-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml
#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#
# package.json license: format uses https://spdx.org/licenses/ identifiers, which
# are mostly compatible with
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/#license-specification

import os
import sys
import json
import re
import subprocess
import argparse
from glob import glob

debian_dir = os.path.join(os.path.dirname(__file__), 'debian')
template_file = os.path.join(debian_dir, 'copyright.template')

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    p.add_argument('node_modules', help='path to node_modules directory')
    return p.parse_args()

def template_licenses(template):
    '''Return set of existing License: short names'''

    ids = set()
    for l in template.splitlines():
        if l.startswith('License: '):
            ids.add(l.split(None, 1)[1].lower())
    return ids

def module_license(moddir):
    '''Return License: short name for given module'''

    # First check if package.json has a "license" field
    try:
        with open(os.path.join(moddir, 'package.json'), encoding='UTF-8') as f:
            l = json.load(f)['license']
if l.startswith('(MIT OR '):
    return 'MIT'
if l == 'MPL 2.0':
    # https://github.com/novnc/noVNC/pull/819
    return 'MPL-2.0'
return l
except (IOError, KeyError):
    pass

# *LICENSE*/COPYING/README
if os.path.exists(os.path.join(moddir, 'MIT-LICENSE.txt')):
    return 'MIT'
try:
    with open((glob(os.path.join(moddir, 'LICENSE*')) +
               glob(os.path.join(moddir, 'COPYING')))[0]) as f:
        text = f.read()
    if 'Permission is hereby granted,' in text and 'THE SOFTWARE IS PROVIDED "AS IS"' in text:
        return 'MIT'
except IndexError:
    pass
raise SystemError('Could not determine license from %s' % moddir)

def module_copyright(moddir):
    """Return Copyrights for given module""

    mod = os.path.basename(moddir)
copyrights = set()
try:
    out = subprocess.check_output(['env', '-u', 'LANGUAGE', 'LC_ALL=C.UTF-8', 'grep', '-hri', 'copyright.*\[[1-9]\][0-9]+\|(c)\]'],
cwd=moddir).decode('UTF-8')
for l in out.splitlines():
    # ignore compiled .css.map files
    if l.startswith('{"version":') or l.endswith('@!') in l:
        continue
    # weed out some noise
    if 'grunt.template.today' in l or 'copyright-mark' in l or '@font-face' in l or 'Binary file' in l:
        continue
    if '<name of author>' in l:
        continue
    l = l.replace('<copyright>', '').replace('</copyright>', '')
    l = l.replace('©', '(c)').replace('copyright = ', '')
    l = re.sub('@license.*Copyright', '', l)
    l = l.strip(' */
    if not l.endswith('Inc. '):
        # avoids some duplicated lines which only differ in trailing dot
l = l.strip(')
if l.startswith("u") or l.startswith('u-fw'):  # Python unicode prefix
    l = l[2:]
if 'Fixes #' in l:
    continue  # this is from a changelog
# some noise fine-tuning for specific packages
if mod == 'bootstrap' and ('https://github.com' in l or l == 'Copyright 2015'):
    continue
if mod == 'patternfly':
    l = re.sub(' and licensed.*', '', l)
copyrights.add(' ' + l)  # space prefix for debian/copyright RFC822 format
except subprocess.CalledProcessError:
    pass
if not copyrights:
    # fall back to package.json's author
    try:
        with open(os.path.join(moddir, 'package.json')) as f:
            author = json.load(f)['author']

            # 'author' can be either a string or a dict
            # https://flaviocopes.com/package-json/#author
            if isinstance(author, dict):
                author = author['name']
            assert isinstance(author, str)

            copyrights.add(' ' + author)
    except (IOError, KeyError):
        pass
if not copyrights:
    raise SystemError('Did not find any copyrights in %s' % moddir)
return copyrights

# # main
#

args = parse_args()

with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)
paragraphs = []
for module in sorted(os.listdir(args.node_modules)):
    if module == 'README':
moddir = os.path.join(args.node_modules, module)
license = module_license(moddir)
if license.lower() not in license_ids:
    raise KeyError('%s has license %s which is not in %s' % (module, license, template_file))
copyrights = module_copyright(moddir)
paragraphs.append('''Files: node_modules/%s/*
Copyright:%s
License: %s''' % (module, '
'.join(sorted(copyrights)), license))

# force UTF-8 output, even when running in C locale
for l in template.splitlines():
    if '#NPM' in l:
        sys.stdout.buffer.write(('%s

'.join(paragraphs)).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(l.encode('UTF-8'))
        sys.stdout.buffer.write(b'
')

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and
compressed JavaScript/HTML files built from pkg/* and node_modules/* with
node, npm, and webpack. Their copyrights and licenses are described below.
Rebuilding these requires internet access as that process needs to download
additional npm modules from the Internet, thus upstream ships the pre-minified
webpacks as part of the upstream release tarball so that the package can be
built without internet access and lots of extra unpackaged build dependencies.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page

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2000-01-14

1.1955 trousers-lib 0.3.14-4.el8

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**1.1956 pyopenssl 19.0.0**

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1.1958 python3-gobject-base 3.28.3-1.el8

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@m.tiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
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[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.1964 logstash-mixin-ecs_compatibility_support 1.3.0

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

1.1966 x-sys 0.0.0-20211020174200-9d6173849985

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1.1967 dosfs-tools 4.1 6.el8

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Additional -
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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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*/
/** */
/* Return the web session for the current request. Always guaranteed to */
/* return an instance either matching to the session id requested by the */
/* client, or with a new session id either because the client did not

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* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See [@link WebSession]
* for more details.
*/

Found in path(s):
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/server/ServerWebExchange.java
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Found in path(s):
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/context/support/ServletContextPropertySource.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/jsf/FacesContextUtils.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/http/client/ClientHttpRequest.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
  jar/org/springframework/web/context/support/ServletConfigPropertySource.java
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* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/bind/annotation/Mapping.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml	nvbd
# application/dskpp+xml
application/dssc+der	dssc
application/dssc+xml	xdssc
# application/dvcs
application/ecmascript	ecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml	emma
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip	epub
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudiosk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml	ink inkml
# application/iotp
application/ipfix	ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive	jar
application/java-serialized-object	ser
application/java-vm	class
application/javascript	js
# application/jose
# application/jose+json
# application/jrd+json
application/json+json
# application/json-patch+json
# application/json-seq
application/jsonml+json
# application/jwk+json
# application/jwk-set+json
application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml	lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40	hqx
application/mac-compactpro	cpt
# application/macwriteii
application/mads+xml	mads
application/marc	mrc
application/marcxml+xml	mrcx
application/mathematica nb mb
application/mathml+xml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/nbms-associated-procedure-description+xml
application/oggogx
application/omdoc+xmlmlomdoc
application/onenote onetoc onetoc2 onetmp onepkg
application/oxps oxps
# application/p2p-overlay+xml
# application/parityfec
application/pdf-pdf
application/pgp-encryptedpgpg
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
# application/pkcs12
application/pkcs7-mimep7m p7c
application/pkcs7-signaturep7s
application/pkcs8p8
application/pkix-attr-certac
application/pkix-certificate
application/pkix-crlcrl
application/pkix-pkipathpkipath
application/pkix-cmmpki
application/pls+xmlmlpls
# application/poc-settings+xml
application/postscriptai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
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# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xmlmlpskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xmlmlrdf
application/reginfo+xmlmlrif
application/relax-ng-compact-syntaxxml
# application/remote-printing
# application/reputon+json
application/x-bcpio
application/x-bittorrent
application/x-blorb
application/x-bzip
application/x-bzip2
application/x-cbr
application/x-cdlink
application/x-cpio
application/x-csh
application/x-debian-package
application/x-dgc-compressed
application/x-director
application/x-doom
application/x-dtbncx+xml
application/x-dtbresource+xml
application/x-dvi
application/x-envoy
application/x-envoy
application/x-en
application/x-font-bdf
application/x-font-ghostscript
application/x-font-linux-psf
application/x-font-otf
application/x-font-pcf
application/x-font-snf
application/x-font-ttf
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application/x-freearc
application/x-futuresplash
application/x-gca-compressed
application/x-glulx
application/x-gnumeric
application/x-gramps-xml
application/x-hdf
application/x-install-instructions
application/x-ustar
application/x-wais-sourcesrc
# application/x-www-form-urlencoded
application/x-x509-ca-cert
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application/x-xfig
application/x-xliff+xml
application/x-xz
application/x-xzmachine
z1 z2 z3 z4 z5 z6 z7 z8
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# application/xcap-att+xml
# application/xcap-caps+xml
application/xcap-diff+xml
# application/xcap-el+xml
# application/xcap-error+xml
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
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application/xproc+xml
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application/xspf+xml
application/xv+xml
application/yang
application/yin+xml
application/xml
dtd
application/xml-dtd
taxi
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# application/xmpp+xml
# application/zip
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# audio/atrac-x
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# audio/bv32
# audio/clearmode
# audio/cn
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# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
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# audio/dvi4
# audio/eac3
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# audio/evrc
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chemical/x-cmleml
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# chemical/x-pdb
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gm
# image/dicom-rle
# image/emf
# image/example
# image/fits
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# message/sipfrag
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# message/vnd.wfa.wsc
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# model/x3d+fastinfoset
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# multipart/form-data
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# multipart/parallel
# multipart/related
# multipart/report
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# text/ulpfec
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# video/vnd.dlna.mpeg-tts
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# video/vnd.iptvforum.ttsAVE
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurlmux u4u
video/vnd.ms-playready.media.pyvpyv
# video/vnd.nokia.interleaved-multimedia
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# video/vnd.radgamettools.smacker
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# video/vnd.sealedmedia.softseal.mov
video/vnd.uvuu.mp4uvu uvvu
video/vnd.vivoviv
# video/vp8
video/webmwebm
video/x-f4vf4v
video/x-flifli
video/x-flvf1v
video/x-m4vm4v
video/x-matroskamkv mk3d mks
video/x-mngmng
video/x-ms-asfasf asx
video/x-ms-vobvob
video/x-ms-wmwm
video/x-ms-wmvwmv
video/x-ms-wmxwmx
video/x-ms-wxxwvx
video/x-msvideoavi
video/x-sgi-moviemovie
video/x-smvsmv
x-conference/x-cooltalkice

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* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java

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* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/bind/annotation/RequestMethod.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/filter/ RequestContextFilter.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/http/HttpMessage.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/server/WebFilter.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/context/DestructionCallbackBindingListener.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/context/async/DeferredResultProcessingInterceptorAdapter.java

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Found in path(s):
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/client/AsyncRequestCallback.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/client/AsyncRestOperations.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-jar/org/springframework/web/context/async/DeferredResultProcessingInterceptorAdapter.java
* /opt/cola/permits/1116954255_1608102474.1/0/spring-web-5-3-2-sources-
1.1980 protobuf 1.27.1
1.1980.1 Available under license:

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 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * [接入 queueCapacity(int) queueCapacity] is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [接入 java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor] for
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 * <p>By default this is set to [接入 Integer.MAX_VALUE].
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* /opt/cola/permits/1111462890_1606928334.17/0/spring-messaging-5-1-3-release-sources-1-
jar/org/springframework/messaging/handler/invocation/AsyncHandlerMethodReturnValueHandler.java
* /opt/cola/permits/1111462890_1606928334.17/0/spring-messaging-5-1-3-release-sources-1-
jar/org/springframework/messaging/handler/invocation/ConnectionHandlingStompSession.java
* /opt/cola/permits/1111462890_1606928334.17/0/spring-messaging-5-1-3-release-sources-1-
jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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1.1997 perl-parent 0.237-1.el8

1.1997.1 Available under license :

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---
abstract: 'Establish an ISA relationship with base classes at compile time'
author: 
  - 'Max Maischein <corion@cpan.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configureRequires:
parent - Establish an ISA relationship with base classes at compile time

package Baz;
use parent qw(Foo Bar);

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}
By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell \texttt{C<parent>} not to load any modules by using the \texttt{C<-norequire>} switch:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm
```

This is equivalent to the following code:

```perl
package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';
```

This is also helpful for the case where a package lives within
a differently named file:

```perl
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';
```

This is equivalent to the following code:

```perl
package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';
```

If you want to load a subclass from a file that \texttt{C<require>} would
not consider an eligible filename (that is, it does not end in
either \texttt{C<.pm>} or \texttt{C<.pmc>}), use the following code:

```perl
package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';
```

=head1 HISTORY

This module was forked from \texttt{L<base>} to remove the cruft
that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO
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Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

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Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

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=cut

1.1998 lucene-queryparser 8.11.1
1.1998.1 Available under license:

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

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

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

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

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

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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
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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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*/opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/core/WhenTagSupport.java

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* JSTLXPathConstants.java
*
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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1.2-sources-1-
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1.2009 selinux 2.9-3.el8

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [@link ChannelPipeline].

* Sub-types

* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:

  * <ul>
    * [@link ChannelInboundHandler] to handle inbound I/O events, and</li>
    * [@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
  * </ul>

* Alternatively, the following adapter classes are provided for your convenience:

  * <ul>
    * [@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
    * [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
    * [@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
  * </ul>

* For more information, please refer to the documentation of each subtype.

* The context object

* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the [@link ChannelPipeline] it belongs to via a context object. Using the context object, the [@link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [@link AttributeKey]s) which is specific to the handler.

* State management

* A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:

  * public interface Message {
    *   // your methods here
    * }
  *

* public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message>&lt;Message&gt; { 
  *
  * private boolean loggedIn;</b>
  *
  *   { @code @Override
    *   public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
      *     if (message instanceof LoginMessage) {

authenticate((LoginMessage) message);
<b>loggedIn = true;</b>
} else (message instanceof GetDataMessage) {
    if (<b>loggedIn</b>) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
    } else {
        fail();
    }
}
}
}

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}{@link Channel} {
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

public interface Message {
    // your methods here
}

{@code @Sharable}
public class DataServerHandler extends {@link SimpleChannelInboundHandler}{@link Message} {
    private final {@link AttributeKey}{@link Boolean} auth =
        {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {@code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        {@link Attribute}{@link Boolean} attr = ctx.attr(auth);
if (message instanceof LoginMessage) {
    authenticate((LoginMessage) o);
    attr.set(true);
} else if (message instanceof GetDataMessage) {
    if (Boolean.TRUE.equals(attr.get())) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
    } else {
        fail();
    }
}
...
</pre>

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

### The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation. If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

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* Please refer to the [@link ChannelHandler](#), and
* [@link ChannelPipeline](#) to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

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jar/io/netty/channel/ChannelInboundHandler.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/local/LocalChannel.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/group/ChannelGroupFuture.java
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jar/io/netty/channel/socket/nio/NioSocketChannel.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelPromiseNotifier.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/oio/package-info.java
   */opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelOption.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/package-info.java
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jar/io/netty/channel/local/package-info.java
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jar/io/netty/channel/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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jar/io/netty/channel/ChannelPromise.java
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jar/io/netty/channel/SingleThreadEventLoop.java
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jar/io/netty/channel/ChannelInboundHandlerAdapter.java
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jar/io/netty/channel/socket/SocketChannelConfig.java
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jar/io/netty/channel/FailedChannelFuture.java
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jar/io/netty/channel/group/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelInitializer.java
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jar/io/netty/channel/local/LocalChannelRegistry.java
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jar/io/netty/channel/EventLoopGroup.java
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jar/io/netty/channel/oio/EventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/package-info.java
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jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/bootstrap/Bootstrap.java
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jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/SucceededChannelFuture.java
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jar/io/netty/bootstrap/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/oio/AbstractOioByteChannel.java

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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ExtendedClosedChannelException.java

1.2014 libsepol 2.9-2.el8

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

-----------------------------------------------------------------------------------
Files: *
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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS’s install programs.
1.2022 libbasicobjects 0.1.1-39.el8

1.2022.1 Available under license:

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File:  Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.2030 logstash-input-couchdb_changes

3.1.6

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The following is a list of people who have contributed ideas, code, bug reports, or in general have helped Logstash along its way.

Contributors:
* Aaron Mildenstein (untergeek)
* Pier-Hugues Pellerin (ph)
* Suyog Rao (suyograo)

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=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
    local $Data::Dumper::Purity = 1;
    eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
... print $d->Dump;
... $d->Purity(1)->Terse(1)->Deepcopy(1);
    eval $d->Dump;

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential
structures correctly.

The return value can be \texttt{eval}ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named \texttt{C<$VAR>I<n>} (where I<n> is a numeric suffix), and other duplicate references to substructures within \texttt{C<$VAR>I<n>} will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the \texttt{C<Dump>()} method, or you can change the default \texttt{C<$VAR>} prefix to something else. See \texttt{C<$Data::Dumper::Varname>} and \texttt{C<$Data::Dumper::Terse>} below.

The default output of self-referential structures can be \texttt{eval}ed, but the nested references to \texttt{C<$VAR>I<n>} will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the \texttt{C<Purity>} flag to 1 to get additional statements that will correctly fill in these references. Moreover, if \texttt{C<eval>ed} when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a \texttt{C<*}>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the \texttt{C<Terse>} flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the \texttt{C<Indent>} flag. See \texttt{L<Configuration Variables or Methods>} below for details.

=head2 Methods

=over 4

=item \texttt{I<PACKAGE>->new(I<ARRAYREF>[>, I<ARRAYREF]>)}

Returns a newly created \texttt{C<Data::Dumper>} object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading \texttt{C<$>} sign, and must be comprised of alphanumeric characters. You can begin a name with a \texttt{C<*}> to specify that the dereferenced type must be dumped instead of the reference itself, for \texttt{ARRAY} and \texttt{HASH} references.
The prefix specified by \$Data::Dumper::Varname\ will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item \$OBJ->Dump \ or \ PACKAGE->Dump(ARRAYREF \[>, ARRAYREF\])

Returns the stringified form of the values stored in the object (preserving the order in which they were supplied to \new\), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the \new\ method on its arguments before dumping the object immediately.

=item \$OBJ->Seen(HASHREF)

Queries or adds to the internal table of already encountered references. You must use \Reset\ to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in \new\. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

=item \$OBJ->Values(ARRAYREF)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

=item \$OBJ->Names(ARRAYREF)

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short
of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.

=item $OBJ->Reset

Clears the internal table of "seen" references and returns the object itself.

=back

=head2 Functions

=over 4

=item Dumper($LIST)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named $VAR$n in the output, where $n is a numeric suffix. Will return a list of strings in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually localized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the new method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent  or  $OBJ->Indent(NEWVAL)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called
valid perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Trailingcomma I<or> I<$OBJ>-Trailingcomma(I<NEWVAL>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

=item *

$Data::Dumper::Purity I<or> I<$OBJ>-Purity(I<NEWVAL>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting it to 1 will output additional perl statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad I<or> I<$OBJ>-Pad(I<NEWVAL>)

Specifies the string that will be prefixed to every line of the output. Empty string by default.

=item *

$Data::Dumper::Varname I<or> I<$OBJ>-Varname(I<NEWVAL>)

Contains the prefix to use for tagging variable names in the output. The default is "VAR".

=item *

$Data::Dumper::Useqq I<or> I<$OBJ>-Useqq(I<NEWVAL>)

When set, enables the use of double quotes for representing string values. Whitespace other than space will be represented as C<\n\t\r>, "unsafe" characters will be backslashed, and unprintable characters will be output as quoted octal integers. The default is 0.
When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C<$VAR>I<n> names will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even rebless it in a different package. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax C<bless(DATA, CLASS)-E<gt>METHOD()> . Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.
Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ' : ';>. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin. Default is: C< =E<gt> >.

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

Can be set to a positive integer that specifies the depth beyond which recursion into a structure will throw an exception. This is intended as a security measure to prevent perl running out of stack space when dumping an excessively deep structure. Can be set to 0 to remove the
limit. Default is 1000.

=item *

$Data::Dumper::Useperl  I<or>  $I<OBJ>-&gt;Useperl(I&lt;[NEWVAL]&gt;)

Can be set to a boolean value which controls whether the pure Perl implementation of C&lt;Data::Dumper&gt; is used. The C&lt;Data::Dumper&gt; module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys  I<or>  $I<OBJ>-&gt;Sortkeys(I&lt;[NEWVAL]&gt;)

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case C&lt;Data::Dumper&gt; will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

$Data::Dumper::Deparse  I<or>  $I<OBJ>-&gt;Deparse(I&lt;[NEWVAL]&gt;)

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, C&lt;B::Deparse&gt; will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution : use this option only if you know that your coderefs will be properly reconstructed by C&lt;B::Deparse&gt;.

=item *

$Data::Dumper::Sparseseen  I<or>  $I<OBJ>-&gt;Sparseseen(I&lt;[NEWVAL]&gt;)


By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive.
This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the C<Seen()> call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the C<Sparseseen> option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=head2 Exports

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless {'a' => 1, 'b' => sub { return "foo" }}, $_[0]};

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \$_ = \'fu\'z\', $_[0]};

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \$foo,
    [1 => 'a', 023 => 'b', 0x45 => 'c'],
]
\"p\"q\"r\", $foo, $fuz];

########
# simple usage
########

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar); # pretty print (no array indices)

$Data::Dumper::Terse = 1;    # don't output names where feasible
$Data::Dumper::Indent = 0;   # turn off all pretty print
print Dumper($boo), \"\n\";

$Data::Dumper::Indent = 1;   # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3;   # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1;    # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = \" : \\"; # specify hash key/value separator
print Dumper($boo);

########
# recursive structures
########

@c = (\'c\');
$e = \@c;
$b = {};
$a = [1, $b, $c];
$b->[a] = $a;
$b->[b] = $a->[1];
$b->[c] = $a->[2];
print Data::Dumper->Dump([$a, $b, $c], [qw(a b c)]);

$Data::Dumper::Purity = 1;    # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b

$Data::Dumper::Deepcopy = 1;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);
$Data::Dumper::Purity = 0;  # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########

$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };  
$d = [ $c ];
$e = { 'd' => $d };  
$f = { 'e' => $e };  
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;  # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);

########
# object-oriented usage
########

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({"c" => $c});  # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);  # empty the seen cache
print join "----
", $d->Dump;

########
# persistence
########

package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {  
    my $s = shift;
    print STDERR "preparing to sleep\n";
    $s->{state} = 'asleep';
    return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {

my $s = shift;
print STDERR "waking up
";
$s->{state} = 'awake';
return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########
sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new([\&other,$bar],["other","bar"]);
$d->Seen({ 'foo' => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { (ord, "$_$_$_") } 'I'..'Q' } | 'T'..'Q' ;
my $bar = [ %$foo ];
my $baz = { reverse %$foo };
print Dumper [ $foo, $bar, $baz ];

sub my_filter {
  my ($hash) = @_;
  # return an array ref containing the hash keys to dump
  # in the order that you want them to be dumped
  return [
    # Sort the keys of %$foo in reverse numeric order
    $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
    # Only dump the odd number keys of %$bar
$hash eq $bar ? (grep {$_ % 2} keys %$hash) :
  # Sort keys in default order for all other hashes
  (sort keys %$hash)
};
}

=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an
array or hash. Prepend it with a C<\> to pass its reference instead. This
will be remedied in time, now that Perl has subroutine prototypes.
For now, you need to use the extended usage form, and prepend the
name with a C<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is
encountered in the structure being processed (and if you haven't set
the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
Someday, perl will have a switch to cache-on-demand the string
representation of a compiled piece of code, I hope. If you have prior
knowledge of all the code refs that your data structures are likely
to have, you can use the C<Seen> method to pre-seed the internal reference
table and make the dumped output point to them, instead. See L</EXAMPLES>
above.

The C<Deparse> flag makes Dump() run slower, since the XS
implementation does not support it.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly
only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different
ordering of hash keys. The change was done for greater security,
see L<perlsec/"Algorithmic Complexity Attacks">. This means that
different runs of Perl will have different Data::Dumper outputs if
the data contains hashes. If you need to have identical Data::Dumper
outputs from different runs of Perl, use the environment variable
PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores
the old (platform-specific) ordering: an even prettier solution might
be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR
=head1 VERSION

Version 2.161 (July 11 2016)

=head1 SEE ALSO

perl(1)

=cut

Found in path(s):

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

/ *

ppport.h -- Perl/Pollution/Portability Version 3.31

Automatically created by Devel::PPPort running under perl 5.022001.

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.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help                 show short help
--version              show version
--patch=file           write one patch file with changes
--copy=suffix          write changed copies with suffix
--diff=program        use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus            accept C++ comments
--quiet                don't output anything except fatal errors
--nodiag               don't show diagnostics
--nohints              don't show hints
--nochanges            don't suggest changes
--nofilter             don't filter input files
--strip                strip all script and doc functionality from ppport.h
--list-provided        list provided API
--list-unsupported     list unsupported API
--api-info=name        show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=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.
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. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 -diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<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 F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<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. Warnings will still be displayed.
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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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

=item *

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.

=item *

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 F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables 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 F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

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.
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 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 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.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

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 here: L<https://github.com/mhx/Devel-PPPort/issues/>

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) 2004-2013, 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;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if \$_] >= 5.009004 && \$_] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r
|\[\r
\])';   # line feed
my $HS = '\[ \t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\*.*\*/';
my $cce = '* /^/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(  
        help quiet diag! filter! hints! changes! cplusplus strip version  
        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";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}

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(
ASCII_TO_NEED||5.007001
AvFILLlp5.004050||p
AvFILL||
BhkDISABLE||5.021008
BhkENABLE||5.021008
BhkENTRY_set||5.021008
BhkENTRY||
BhkFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n
CPERLscope|5.005000|p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_utf8|5.008001||p
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_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
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to_utf8_case|5.007003|
to_utf8_fold|5.015007|
to_utf8_lower|5.015007|
to_utf8_substr||
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    warn_warn$);
    if (exists $opt{'list-unsupported'}) {
      my $f;
      for $f (sort { lc $a cmp lc $b } keys %API) {
        warn_warn$);}
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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}

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$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)\(.*\)\s+\(\.*\).*$};

if ($function) {
    if (/\^\)/) {
        if (exists $API{[$function->[0]]) {
            my @n = find_api($function->[1]);
            push @{$depends{[$function->[0]]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
        }
    }

$function = [$1, ""] if m{^DPPP\_(my\_(\w+))};

$replace    = $1 if m{^\s*\$rccs\s+Replace\:\s+(\d+)\s+\$rcces\s+\$};
$replace{[$2]} = $1 if m{^\s*#\s*define\s+(\w+)\(.*\)\s+\(\.*\).*$\s+\$(\w+)\s+\$rcces\s+Replace\:\s+\$rcces\s+\$};
$replace{[$1]} = $2 if m{^\s*\$rcces\s+Replace\ ((\w+))\s+\$(\w+)\s+\$rcces\s+\$};

if (m{^\s*\$rcces\s+(\w+(\s*,\s*\w+)*))\s+\$depend\s+(\w+(\s*,\s*\w+)*))\s+\$rcces\s+\$}) {  
    my @dps = map { s/\s+///g; $_ } split /,/, $3;
    my $d;
    for $d (map { s/\s+/g; $_ } split /,/, $1) {
        push @{$depends{$d}}, @dps;
    }
}

$need{[$1]} = 1 if m{^\s*\$defined\((\$NEED_(\w+)\(\?\$GLOBAL\))?\)};

for (values %depends) {
    my %s;
    $s_ = [sort grep !$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";
    }
    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 "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
  $info++;
}

print "No portability information available.\n" unless $info;
$count++;
}

$count or print "Found no API matching 'opt{'api-info'}'.:\n";
print "\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};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(', ', @flags) .']' : '';
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      push @files, $_ unless $seen{$_}++;
    }
  }
  exit 0;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
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;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}

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INFO("Scanning $filename ...");

my $c = do { local $/; <IN> }; 
close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  ( ^$HS*#$HS*include\b[^\r\n]+\b(?:\QSppportE[XSUB\.h]b[^\r\n]*)
  | ^$HS*#$HS*(!define|elif|if\b[^\r\n]*)b[^\r\n]*)
  | ( ^$HS*#$HS\n*)
  | "[^\r\n]*:\:\[^\r\n]*"\n  | '[^\r\n]*\"\n  | / (?::\^[^\r\n]*\"[^\r\n]*)/ | /[^[\r\n]*)\n  )
} { defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+b\QSppportE\b/m;

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}) {
    $file{uses_provided}{$func}++;
    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 $file{uses} @{$_};
  }
  if (exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
    $file{needs} @{$_} = 'static' if exists $need{$_};
  }
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$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 @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
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;

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my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if (HAS($func) {varargs}) {
        unless (HAS($func) {nothxarg}) {
            my $changes = ($c =~ s{\bPerl_$func\s*\(\s*?!aTHX_?\)?\([^\s)]*\)\}\.?\$2|g);

            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
        else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\(\s*?!aTHX_?\)?\([^\s)]*\)\}\.?\$1|g);
        }
    }
    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }
    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses} {$func}) {
            if (exists $file{uses_deps} {$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps} {$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($HAS{$func} {todo}), ", even with "ppport\n";
            $warnings++;
        }
    }
    for $func (sort keys %{$file{needed_static}}) {
        my $message = "";

    }
}

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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";
        }
    }
    else {
        $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
    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\"\);
    $pp = qq(include \"$ppport\"\n)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)^/$1$pp/ms) |
        ($c =~ s/^($HS*#$HS*include.*\Q$ppportE\E/\Q$ppportE\E)/$pp/m) |
        ($c =~ s/^($HS*#$HS*include.*XSUB.*s+)?$/1$pp/m) |
        ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag(\"No need to include \"$ppport\"\);
        $file{changes} += ($c =~ s/^($HS*?$HS*include.*?\Q$ppport\E.*?
        LF=//m);
    }
}

# 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/$ccs$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\");
}

my $s = $warnings != 1 ? 's' : ":
my $warn = $warnings ? ($warnings warning$s) : ";

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info("Analysis completed\$warn");

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") {
                info("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: $!');
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        } } 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 try_use { eval "use @_;"; return $@ eq " " }

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 try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $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 rec_depend
{
    my($func, $seen) = @_;     
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /\^((d+)(\d+)(\d+))$/) {
        return ($1, $2, $3);
    } elsif ($ver !~ /^(d+)\.(\d+)\.(\d+)/$) {
    } elsif ($ver !~ /\^d+([d_]+)$/) {

die "cannot parse version "$ver"
";
}

$ver =~ s/\_/\//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\([^/]+\)(\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;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\([^/]+\)(\d\d)/;

    $v = int $v;
    $s = int $s;

    if ($r <= 5 || ($r == 5 & $v <= 6)) {
        if ($s % 10) {
            die "invalid version "$ver"
";
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "\_%02d", $s;
    }

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
}
print @_.
;

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_.
;
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_.
;
}

sub error
{
print "*** ERROR: ", @_.
;
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func
", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func "
---\n", $hint;
}
$rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my $hint = 'perl';
if ($hint =~ s/^/   /mg)
print "$hint for "$hint "
---\n", $hint;
my $rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my $hint = 'perl';
if ($hint =~ s/^/   /mg)
print "$hint for "$hint "
---\n", $hint;
my $rv;
}
print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }; my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*\^(.*?)\^\w+/ms; $copy =~ s/\^(?!\S+)/\/gms; $self =~ s/\^\$\S+Do NOT edit.*?(?=^-)/(?=-\$copy)/ms; $self =~ s/\^\$\S+.*?(?=\^\w+\$\S+)(?=.*?\^\w+)/SKIP /gms; $self =~ s/\^\w+\$\S+.*?(?=\w+\$\S+)(?=.*?\^\w+)/SKIP /gms; if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }; \$@ and die "Cannot require Devel::PPPort, please install:\n";
        if (eval \$Devel::PPPort::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPort $VERSION:\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION:\n" . "Please install a newer version, or --unstrip will not work:\n";
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$\^X \$0 --unstrip

END

/;ms;
my($pl, $c) = $self =~ /(.*^\w+\$\S+)(.*)/ms;
$c =~ s{
    / (?::\^\w+[\^\*]+(?::[^ccs][^\*]+\^\*+)\^\w+\*) / | /[^\x\n]*/
    | ( "\"\\\|?\w\]|^\"\"\^\*)\w+
    | [^\x\n]\^\w*(?::\w+[^\x\*]+\^\*+\^\w+)\w+
    | (\$\S+ )} { defined $2 ? '' : ($1 || '') }gsex;
$c =~ s/!/\$!mg;
$c =~ s/!/\$LF!!mg;

Open Source Used In Cisco Identity Services Engine 3.2 47303
Found in path(s):
No license file was found, but licenses were detected in source scan.

License:    GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1125845311_1611458233.71/0/perl-Data-Dumper-2.167-399.el8-1.src.rpm-cosi-expand-archive-iR8kc2Vb/perl-Data-Dumper.spec
No license file was found, but licenses were detected in source scan.

From 9f38b6c605086a67f0d92591f8e8dc99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=P=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>

---
Changes     |  14 ++++++
Dumper.pm   |  47 +++++++++++++
Dumper.xs   | 167 +++++++++++++++++++++++++++++++++++++++++++++---------------
t/bugs.t    |  37 ++++++++++++++
t/deparse.t |  22 +++----
5 files changed, 207 insertions(+), 80 deletions(-)
diff --git a/Changes b/Changes
index f9ea53f..a5430d5 100644
--- a/Changes
+++ b/Changes
@@ -6,6 +6,20 @@ Changes - public release history for Data::Dumper
Reduce memory usage by not importing from Carp
Reduce memory usage by removing unused overload require.

Remove impediment to compiling under C++11.

The XS implementation now handles the C<Deparse> option, so using it no longer forces use of the pure-Perl version.

Perl 5.12 fix/workaround until fixed PPPort release.

diff --git a/Dumper.pm b/Dumper.pm
diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@
package Data::Dumper;
BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
}               # date in POD below!

#$_ = 1;

use 5.006_001;
require Exporter;
require overload;

-use Carp;
+use Carp ();

BEGIN {
    @ISA = qw(Exporter);
    @@ -70,7 +69,7 @@ $Maxrecurse = 1000 unless defined $Maxrecurse;
    sub new {
        my($c, $v, $n) = @@;

        - croak "Usage: PACKAGE->new(ARRAYREF, [ARRAYREF])"

        return bless ($c, @ISA);
    }
+ Carp::croak("Usage: PACKAGE->new(ARRAYREF, [ARRAYREF])")
unless (defined($v) && (ref($v) eq 'ARRAY'));
$n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

@@ -170,11 +169,11 @@ sub Seen {
    $s->{seen}{$id} = [$k, $v];
    }
    else {
-          carp "Only refs supported, ignoring non-ref item \$$k";
+          Carp::carp("Only refs supported, ignoring non-ref item \$$k");
    }
    }
    else {
-        carp "Value of ref must be defined; ignoring undefined item \$$k";
+        Carp::carp("Value of ref must be defined; ignoring undefined item \$$k");
    }
    }
    return $s;
@@ -195,7 +194,7 @@ sub Values {
    return $s;
    }
    else {
-      croak "Argument to Values, if provided, must be array ref";
+      Carp::croak("Argument to Values, if provided, must be array ref");
    }
    }
    else {
@@ -214,7 +213,7 @@ sub Names {
    return $s;
    }
    else {
-      croak "Argument to Names, if provided, must be array ref";
+      Carp::croak("Argument to Names, if provided, must be array ref");
    }
    }
    else {
@@ -227,7 +226,6 @@ sub DESTROY {}
sub Dump {
    return &Dumpxs
    unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
-        || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})
        || (! $IS_ASCII && $] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
    if (ref($s->{sortkeys}) eq 'CODE') {
        $keys = $s->{sortkeys}($val);
    unless (ref($keys) eq 'ARRAY') {

- carp "Sortkeys subroutine did not return ARRAYREF";
+ Carp::carp("Sortkeys subroutine did not return ARRAYREF");
    $keys = [];

@@ -487,16 +485,16 @@ sub _dump {
  require B::Deparse;
  my $sub = "sub ' . (B::Deparse->new)->coderef2text($val);
  $pad = "$s->{sep} . $s->{pad} . $s->{apad} . $s->{xpad} x ($s->{level} - 1);
- $sub =~ s/
/+ $sub =~ s/
/gs;
  $out .= $sub;
}
  else {
-    carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+    Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
  }
  }
  else {
-    croak "Can't handle '$realtypetype' type";
+    Carp::croak("Can't handle '$realtypetype' type");
  }
}

if ($realpack and !$no_bless) { # we have a blessed ref
  @ @ -1212,9 +1210,10 @@ $Data::Dumper::Deparse I<or> $I<OBJ>->Deparse(I<\[NEWVAL\]>)

Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
- XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
  @ @ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope. If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead. See L</EXAMPLES>
-above.
-
-The $<Deparse>$ flag makes Dump() run slower, since the XSUB
-implementation does not support it.

+Even using the $<Deparse>$ flag will in some cases produce results that
+behave differently after being passed to C$<eval>$; see the documentation
+for L$<B::Deparse>$.  

SCALAR objects have the weirdest looking $<bless>$ workaround.

@@ -1466,13 +1459,13 @@ be to use the $<Sortkeys>$ filter of Data::Dumper.

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modify it under the same terms as Perl itself.

=head1 VERSION

-Version 2.161  (July 11 2016)
+Version 2.167  (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
    I32 useqq;
    int use_sparse_seen_hash;
    int trailingcomma;
+    int deparse;
    } Style;
static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
 UV k;

        if (do_utf8
-            && ! isASCII(*U8*s)
+            && ! isASCII(*s)
             /* Exclude non-ASCII low ordinal controls. This should be
             * optimized out by the compiler on ASCII platforms; if not
             * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)


increment = (k == 0 && *s != \"\0\") ? 1 : UTF8_SKIP(s);

#if PERL VERSION < 10
-    sprintf(r, \"\x{%UVxf}\", k);
+    sprintf(r, \"\x{%UVxf}\", k);
    r += strlen(r);
/* my_sprintf is not supported by ppport.h */
#else
-    r = r + my_sprintf(r, \"\x{%UVxf}\", k);
+    r = r + my_sprintf(r, \"\x{%UVxf}\", k);
#endif
continue;
}

@@ -505,6 +506,53 @@ sv_x(pTHX_ SV *sv, const char *str, STRLEN len, I32 n)
       return sv;
  
+static SV *
+deparsed_output(pTHX_ SV *val)
+{
+    SV *text;
+    int n;
+    dSP;
+    /* This is passed to load_module(), which decrements its ref count and
+       * modifies it (so we also can't reuse it below) */
+    SV *pkg = newSVpvs("B::Deparse");
+    load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+    SAVE TP S;
+    PUSHMARK(SP);
+    mXPUSHs(newSVpvs("B::Deparse"));
+    PUTBACK;
+    n = call_method("new", G_SCALAR);
+    SPAGAIN;
+    if (n != 1) {
+        croak("B::Deparse->new returned %d items, but expected exactly 1", n);
+    }
+    PUSHMARK(SP - n);
+    XPUSHs(val);
+    PUTBACK;
+    n = call_method("coderef2text", G_SCALAR);
    if (n != 1) {
        croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
    }
    text = POPs;
    SvREFCNT_inc(text); /* the caller will mortalise this */
    FREETMPS;
    PUTBACK;
    return text;
}

/*
 * This ought to be split into smaller functions. (it is one long function since
 * it exactly parallels the perl version, which was one long thing for
 */

i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
    if (SvTRUE(ERRSV))
        warn("WARNING(Freezer method call failed): %"SVf, ERRSV);
    PUTBACK; FREETMPS; LEAVE;
}

ival = SvRV(val);
realtype = SvTYPE(ival);
#endif DD_USE_OLD_ID_FORMAT
    idlen = my_snprintf(id, sizeof(id), "0x"UVxf, PTR2UV(ival));
#else
    id_buffer = PTR2UV(ival);
    idlen = sizeof(id_buffer);
#endif

warn("ref name not found for %s", id);
#endif DD_USE_OLD_ID_FORMAT
    warn("ref name not found for 0x" UVxf, PTR2UV(ival));
#endif

return 0;
ilen = inamelen;
sv_setiv(ixsv, ix);
#endif
HN

if (PERL_VERSION < 10)
-                (void) sprintf(iname+ilen, "%%"IVdf, (IV)ix);
+                (void) sprintf(iname+ilen, "%%" IVdf, (IV)ix);
ilen = strlen(iname);
#else
-                ilen = ilen + my_sprintf(iname+ilen, "%%"IVdf, (IV)ix);
+                ilen = ilen + my_sprintf(iname+ilen, "%%" IVdf, (IV)ix);
#endif
iname[ilen++] = '}; iname[ilen] = '0';
if (style->indent >= 3) {
    @ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
            *seenhv,
            SV *sname;
            HE *entry = NULL;
            char *key;
-        STRLEN klen;
            SV *hval;
            AV *keys = NULL;

            @ -976,6 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    char *nkey_buffer = NULL;
    STRLEN nticks = 0;
    SV* keysv;
+        STRLEN klen;
    STRLEN keylen;
    STRLEN nlen;
    bool do_utf8 = FALSE;
    @ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
    if (style->quotekeys || key_needs_quote(key,keylen)) {
        if (do_utf8 || style->useqq) {
            STRLEN ocur = SvCUR(retval);
            -        nlen = esc_q_utf8(aTHX_retval, key, klen, do_utf8, style->useqq);
+        klen = nlen = esc_q_utf8(aTHX_retval, key, klen, do_utf8, style->useqq);
        nkey = SvPVX(retval) + ocur;
    } else {
        if (realtype == SVt_PVCV) {
            - sv_catpvs(retval, "sub { \"DUMMY\" }");
            if (style->purity)
-warn("Encountered CODE ref, using dummy placeholder");
+ if (style->deparse) {
+   SV *deparsed = sv_2mortal(deparsed_output(aTHX_val));
+   SV *fullpad = sv_2mortal(newSVsv(style->sep));
+   const char *p;
+   STRLEN plen;
+   I32 i;
+
+   sv_catsv(fullpad, style->pad);
+   sv_catsv(fullpad, apad);
+   for (i = 0; i < level; i++) {
+     sv_catsv(fullpad, style->xpad);
+   }
+
+   sv_catpvs(retval, "sub ");
+   p = SvPV(deparsed, plen);
+   while (plen > 0) {
+     const char *nl = (const char *) memchr(p, 'n', plen);
+     if (!nl) {
+       sv_catpvn(retval, p, plen);
+       break;
+     }
+     else {
+       size_t n = nl - p;
+       sv_catpvn(retval, p, n);
+       sv_catsv(retval, fullpad);
+       p += n + 1;
+       plen -= n + 1;
+     }
+   }
+ }
+
+ } else {
+   sv_catpvs(retval, "sub \"DUMMY\" ");
+   if (style->purity)
+     warn("Encountered CODE ref, using dummy placeholder");
+ }
}
else {
  warn("cannot handle ref type %d", (int)realtype);
}

#ifdef DD_USE_OLD_ID_FORMAT
  idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(val));
#else
  id_buffer = PTR2UV(val);
#endif

ilen = sizeof(id_buffer);
@@ -1184,9 +1264,9 @@ DD_dump(pTHX_SV *val, const char *name, STRLEN namelen, SV *retval, HV *
seenhv,
      if (DD_is_integer(val)) {
        STRLEN len;
      if (SvIsUV(val)) {
-          len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"UVuf, SvUV(val));
+          len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" UVuf, SvUV(val));
      } else
-          len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, SvIV(val));
+          len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, SvIV(val));
      if (SvPOK(val)) {
        /* Need to check to see if this is a string such as " 0".
I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...)
&& (hv = (HV*)SvRV((SV*)href))
&& SvTYPE(hv) == SVt_PVHV)

-    if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
+    if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
      seenhv = (HV*)SvRV(*svp);
    else
      style.use_sparse_seen_hash = 1;
-    if ((svp = hv_fetch(hv, "noseen", 6, FALSE)))
+    if ((svp = hv_fetchs(hv, "noseen", FALSE)))
      style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
-    if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
+    if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp))
      todumpav = (AV*)SvRV(*svp);
-    if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+    if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
      namesav = (AV*)SvRV(*svp);
-    if ((svp = hv_fetch(hv, "indent", 6, FALSE)))
+    if ((svp = hv_fetchs(hv, "indent", FALSE)))
      style.indent = SvIV(*svp);
-    if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
+    if ((svp = hv_fetchs(hv, "purity", FALSE)))
      style.purity = SvIV(*svp);
-    if ((svp = hv_fetch(hv, "terse", 5, FALSE)))
+    if ((svp = hv_fetchs(hv, "terse", FALSE)))
      terse = SvTRUE(*svp);
-    if ((svp = hv_fetch(hv, "useqq", 5, FALSE)))
+    if ((svp = hv_fetchs(hv, "useqq", FALSE)))
      style.useqq = SvTRUE(*svp);
-    if ((svp = hv_fetch(hv, "pad", 3, FALSE)))
+    if ((svp = hv_fetchs(hv, "pad", FALSE)))
      style.pad = *svp;
-    if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
+    if ((svp = hv_fetchs(hv, "xpad", FALSE)))
+if ((svp = hv_fetchs(hv, "xpad", FALSE)))
  style.xpad = *svp;
-if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "apad", FALSE)))
  apad = *svp;
-if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
+if ((svp = hv_fetchs(hv, "sep", FALSE)))
  style.sep = *svp;
-if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
+if ((svp = hv_fetchs(hv, "pair", FALSE)))
  style.pair = *svp;
-if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "varname", FALSE)))
  varname = *svp;
-if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "freezer", FALSE)))
  style.freezer = *svp;
-if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
+if ((svp = hv_fetchs(hv, "toaster", FALSE)))
  style.toaster = *svp;
-if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
  style.deepcopy = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
  style.quotekeys = SvTRUE(*svp);
-if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+    if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
+      style.trailingcomma = SvTRUE(*svp);
+    if ((svp = hv_fetch(hv, "deparse", FALSE)))
+      style.deparse = SvTRUE(*svp);
+if ((svp = hv_fetchs(hv, "bless", FALSE)))
  style.bless = *svp;
-if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
  style.maxdepth = SvIV(*svp);
-if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+if ((svp = hv_fetchs(hv, "maxrecurse", FALSE)))
  style.maxrecurse = SvIV(*svp);
-if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
    SV *sv = *svp;
    if (! SvTRUE(sv))
      style.sortkeys = NULL;
  }
}
STRLEN nchars;
-sv_setpvn(name, "$", 1);
+sv_setpvs(name, "$"); 
sv_catsv(name, varname);
-nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%%IVdf, (IV)(i+1));
+nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%% IVdf,
+ (IV)(i+1));
sv_catpvn(name, tmpbuf, nchars);
}
@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...)
sv_catpvs(retval, ";");
    sv_catsv(retval, style.sep);
 }
- sv_setpvn(valstr, "", 0);
+ SvPVCLEAR(valstr);
if (gimme == G_ARRAY) {
XPUSHs(sv_2mortal(retval));
if (i < imax)/* not the last time thro ? */
diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
 }
use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
use Data::Dumper;
{
- @-144,4 +144,39 @@ SKIP: {
+ &$tests;
 }
+
+{ # https://rt.perl.org/Ticket/Display.html?id=128524
+ my $want;
+ my $runtime = "runtime";
+ my $requires = "requires";
+ utf8::upgrade(my $runtime = $runtime);
+ utf8::upgrade(my $requires = $requires);
+ for my $run ($runtime, $runtime) {
+ for my $req ($requires, $requires) {
+ my $data = { $run => { $req => { foo => "bar" } } };  
+ local $Data::Dumper::Useperl = 1;
+ # we want them all the same
+ defined $want or $want = Dumper($data);
is(Dumper( $data人都, $want, "utf-8 indents");
+          SKIP:
+          {
+              defined &Data::Dumper::Dumpxs
+              or skip "No XS available", 1;
+              local $Data::Dumper::Useperl = 0;
+              is(Dumper( $data ), $want, "utf8-indents");
+          }
+          }
+          }
+      }
+      }
+      }
+
+    }
+    }
+    }
+
+    SKIP: { }
+    }
+    }
+    }
+
+    skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
+    sub rt130487_args { 0 + @_ }
+    my $code = sub {};
+    local $Data::Dumper::Useperl = 0;
+    local $Data::Dumper::Deparse = 1;
+    my $got = rt130487_args( Dumper($code) );
+    is($got, 1, "stack management in XS deparse works, rt 130487");
+    }
+
+    # EOF
+    diff --git a/t/deparse.t b/t/deparse.t
+    index c281fcee..cddde8c 100644
+    --- a/t/deparse.t
+    +++ b/t/deparse.t
+    @@ -15,7 +15,7 @@ BEGIN {
+    use strict;
+    use Data::Dumper;
+    -use Test::More tests => 8;
+    +use Test::More tests => 16;
+    use lib qw( ./t/lib );
+    use Testing qw( _dumptostr );
+
+    use strict;
+    my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } };

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 47316
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()");
 $dumps{’objzero’} = _dumptostr($obj);

 is($dumps{’noprev’}, $dumps{’dddzero’},
 - "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent");
 + "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)");
 is($dumps{’noprev’}, $dumps{’objempty’},
 - "No previous setting and Deparse() are equivalent");
 + "No previous setting and Deparse() are equivalent (useperl=$useperl)");
 is($dumps{’noprev’}, $dumps{’objzero’},
 - "No previous setting and Deparse(0) are equivalent");
 + "No previous setting and Deparse(0) are equivalent (useperl=$useperl)");

 local \$Data::Dumper::Deparse = 1;
 $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse and Deparse()");
 $dumps{’objone’} = _dumptostr($obj);

 is($dumps{’dddtrue’}, $dumps{’objone’},
 - "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");
 + "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)");

 isnt($dumps{’dddzero’}, $dumps{’dddtrue’},
 - "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
 + "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)");

 like($dumps{’dddzero’},
  qr/\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef/,
  "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)");
 unlike($dumps{’dddtrue’},
  qr/\$Data::Dumper::Deparse = 1 does not report DUMMY/,
  "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)");
 like($dumps{’dddtrue’},
  qr/\$Data::Dumper::Deparse = 1 deparses coderef/,
  "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)");

 --

 2.9.3

 Found in path(s):
 No license file was found, but licenses were detected in source scan.
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: '0'
  Test::More: '0.98'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Data-Dumper
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
  version: '2.161'

Found in path(s):

1.2039 geoclue 2.5.5-1.el8

1.2039.1 Available under license:

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

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

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

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

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

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

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

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(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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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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NuGet.Packaging.Core
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2046 perl-errno 1.28-416.el8

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bcd@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) supplied the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
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1.2071 python-pip 9.0.3
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* /opt/cola/permits/1116954195_1608102373.85/0/spring-beans-5-3-2-sources-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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1.2081 xorg-server 1.20

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1.2082 logstash-patterns-core 4.3.2

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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"`
// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
  Valid    bool
  License  *License
  Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
  var reply LicenseReply
  if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
  }
  return &reply, nil
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
  r := op.c.newRequest("GET", "/v1/operator/license")
  r.params.Set("signed", "1")
  r.setQueryOptions(q)
  __, resp, err := requireOK(op.c.doRequest(r))
  if err != nil {
    return "", err
  }
  defer resp.Body.Close()

  data, err := ioutil.ReadAll(resp.Body)
  if err != nil {
    return "", err
  }

  return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
  var reply LicenseReply

r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
deferr resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
r.body = strings.NewReader(license)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
deferr resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 */

package minio

import (
    "bytes"
    "context"
    "encoding/xml"
    "fmt"
    "net/http"
    "net/url"

    "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html

type objectLegalHold struct {
    XMLNS string `xml:"xmlns,attr,omitempty"
    XMLName xml.Name `xml:"LegalHold"
    Status LegalHoldStatus `xml:"Status,omitempty"
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const {
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
}

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status \"%v\"", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", ")

if opts.VersionID != "" {
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
    return err
}

lhData, err := xml.Marshal(lh)
if err != nil {
    return err
}

reqMetadata := requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentBody:      bytes.NewReader(lhData),
    contentLength:    int64(len(lhData)),
    contentMD5Base64: sumMD5Base64(lhData),
    contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
defer closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil
// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {

// Input validation.
if err := s3utils.CheckValidBucketName(bucketName); err != nil {
    return nil, err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
    return nil, err
}

urlValues := make(url.Values)
urlValues.Set("legal-hold", ")"

if opts.VersionID != "" {
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
    bucketName:       bucketName,
    objectName:       objectName,
    queryValues:      urlValues,
    contentSHA256Hex: emptySHA256Hex,
})
def closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}

lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

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======

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import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL string `json:"url,omitempty"`
// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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jar/io/netty/util/internal/MathUtil.java

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<inceptionYear>2013</inceptionYear>

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</developer>
<developer>
?url>https://github.com/mjpt777</url>
</developer>
<developer>
</developer>
<developer>
?url>https://github.com/kay</url>
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  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

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  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>

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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/ShortCollections.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/LongCollections.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/CharCollections.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/collection/CharCollections.java

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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/Hidden.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java

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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/ResourceLeakHint.java
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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
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* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/Mapping.java
* /opt/ws_local/PERMITS_SQL/1080180774_1597578958.83/0/netty-common-4-1-50-final-sources-jar/io/netty/util/ThreadDeathWatcher.java

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1.2089 libconfig 1.5 9.el8

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It was downloaded from http://www.hyperrealm.com/libconfig

Upstream Author: Mark A Lindner
Mark Lindner - Lead developer & maintainer.
Daniel Marjamki - Enhancements & bugfixes.
Andrew Tytula - Windows Port.
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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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 work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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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.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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 * Get whether message channel confidentiality is active.
 * @return Returns the confidentialityActive.
 */
/**
 * Set whether message channel confidentiality is active.
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<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={ {name} }
as [group]>

{"yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)

  isDirty=(and changeset.isValid)
  changeset=changeset
 )}]

<fieldset>
  <div data-property="action">
  <span class="label">
    Should this permission allow the source connect to the destination?
  </span>
  </div>
  <div role="radiogroup" class={{if changeset.error.Action ' has-error' }}>
    {{#each intents as [intent]}}
    <label>
      <span>{{capitalize intent}}</span>
      <input
        type="radio"
        name="Action"
        value={{intent}}
        checked={{if (eq changeset.Action intent) 'checked'}}
        onchange={{action (changeset-set changeset 'Action') value="target.value"}}
    </label>
    {{/each}}
  </div>
</fieldset>
<fieldset><header><h2>Path</h2></header><div><group.Element @name="PathType" @type="select" as |el|> <el.Label>Path type</el.Label> <PowerSelect @options={{pathTypes}} @selected={{pathType}} @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|> {{get pathLabels Type}} </PowerSelect> </group.Element>{{#if shouldShowPathField}}<group.Element @name="Path" @error={{changeset-get changeset 'error.HTTP.Path'}} as |el|> {{get pathLabels pathType}} </el.Label> <el.Text @value={{changeset-get changeset 'HTTP.Path'}} oninput={{action 'change' 'HTTP.Path' changeset}} /> <State @state={{el.state}} @matches="error"> {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}} Path Regex should not be blank {{else}} Path should start with a '/' {{/if}} </State>
<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
<span>All methods are applied by default unless specified</span>
<group.Element
  @name="allMethods"
  as |el|>
  <el.Checkbox
    checked={{if allMethods 'checked'}}
    onchange={{action 'change' 'allMethods' changeset}}
  />
  <el.Label>
    All Methods
  </el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
{{#each methods as |method|}}
<label class="type-checkbox">
  <input
    type="checkbox"
    name="method"
    value={{method}}
    checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
    onchange={{action 'change' 'method' changeset}}
  />
  <span>{{method}}</span>
</label>
{{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>
<Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as [headerList]>
</Consul::Intention::Permission::Header::List>
</fieldset>
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as [notice]>
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<p>
{{t "components.consul.intention.notice.permissions.body"}}
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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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```css
.consul-intention-permission-form {
  h2 {
    padding-top: 1.4em;
    margin-top: 0.2em;
    margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
    margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
    grid-gap: 12px;
  }
  fieldset:nth-child(2) > div label:last-child {
    grid-column: span 2;
  }
  .ember-basic-dropdown-trigger {
    padding: 5px;
  }
```
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---

layout: commands
page_title: 'Commands: License'

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```
text
Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license.
Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

   $ consul license put @consul.license

Install a new license from stdin:

   $ consul license put -

Install a new license from a string:

   $ consul license put "<license blob>"

Retrieve the current license:

   $ consul license get

Inspect a license:

   $ consul license inspect "<path to license file>"

Reset the current license:

   $ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:

   get      Get the active license
   inspect  Inspect a signed license
   put      Puts a new license in the datacenter
   reset    Resets the license in the datacenter

```

## inspect
This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
...
$ consul license inspect consul.hcllic
...
```

Inspect a license loaded from the environment:

```
...
$ consul license inspect
...
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
...
Source: /consul/config/consul.hcllic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
  Global Visibility, Routing and Scale
  Governance and Policy
Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
  Namespaces
  SSO
  Audit Logging
  Admin Partitions
```
License is valid

```
## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c15f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'
The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffce85e-0830-c0822c15f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

```text
## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffce85e-0830-c0822c15f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
```
Automated Upgrades
Enhanced Read Scalability
Network Segments
Redundancy Zone
Advanced Network Federation

```css
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
    @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
    @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
    @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
    @extend %pill-allow;
}
.consul-intention-permission-list .intentdeny {
    @extend %pill-deny;
}
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yaml_v2-4c78e9757fe7c8256cd1466c42be594d1d6f3aba6

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>>> d2g_dhcp4client-master
>>> hashicorp_go-cleanhttp-875f671b3ddc66f8e2f0acc33829c8cb989a38d
>>> hashicorp_memberlist-cef12ad58224d55cf26caa9e3d239c2fc3b3432a2

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>>> photon-release-2.0-2.ph2

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>>> curl-7.59.0-4.ph2
>>> expat-2.2.4-1.ph2
>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libsolv-0.6.26-3.ph2
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>>> libtirpc-1.0.1-8.ph2
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>>> Isocf-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.0533-6.ph2
>>> xz-5.2.3-2.ph2
>>> zlib-1.2.11-1.ph2

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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
>>> rpm-4.13.0.2-1.ph2
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>>> util-linux-2.32-1.ph2

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>>> coreutils-8.27-3.ph2
>>> elfutils-0.169-3.ph2
>>> grep-3.0-4.ph2
>>> gzip-1.8-1.ph2
>>> haveged-1.9.1-4.ph2
>>> readline-7.0-2.ph2

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>>> cracklib-2.9.6-8.ph2
>>> glibc-2.26-13.ph2
>>> hawkey-2017.1-6.ph2
>>> kmod-24-3.ph2
>>> libgcrypt-1.8.1-2.ph2
>>> libgpg-error-1.27-1.ph2
>>> systemd-233-18.ph2

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>>> ca-certificates-20180919-1.ph2
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>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522993ce71c35890f67554

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>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486

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>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd
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>>> gizak_termui-798ff9cbee4073ef1f88e6069ca4a2c6aa6676b

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>>> go-check_check-20d25e2804050c1cd24a7eaa1e7a6447dd0e74ec
Gocheck - A rich testing framework for Go

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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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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7.tar
protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/vanity/test/proto3.proto

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7\plugin\compare\compare.go
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>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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protobuf-6a92c871a8f5333cf106b2cdf937567208dbb2b7/codec/codec.go

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>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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objx - by Mat Ryer and Tyler Bunnell

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```plaintext
>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

```
tomb - support for clean goroutine termination in Go.

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```
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb

```
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>>> tylerb_graceful-d7d7a205e779a4738d38eda0671ff8bfec965f14

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>> x_crypto_salsa20_salsa-728b753d0135da6801d45a38e6f43ff55779c5c2

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/third_party/typescript/typescript.js

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tools-381149a2d6e5d8f319ccf04bfefc71e03a78b868/godoc\short\short.go
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+build appengine

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It is designed to run only on the instance of godoc that serves golang.org.
package short

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>>> curl-7.59.0-4.ph2

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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Bison implementation for Yacc-like parsers in C


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>>> ncurses-6.0-14.ph2

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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- TSS has been removed
- MD5 is now external, in the OpenSSL library
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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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>>> pcre-8.41-1.ph2

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chkconfig:  2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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SYN signatures. Those signatures work for SYN packets only (duh!).

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his C header file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic Package, Release 2.

Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the Web page http://www.jhauser.us/arithmetic/SoftFloat-2b/SoftFloat-source.txt

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Reasonably optimised generic C-code for memcpy on Microblaze
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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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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.

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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 $
$Date: 1997/06/23 08:26:29 $
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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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Bison interface for Yacc-like parsers in C

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/B Bison implementation for Yacc-like parsers in C


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alloca.c -- allocate automatically reclaimed memory
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This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

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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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readline-7.0.tar.gz/readline-7.0.tar/readline-7.0/support/wcwidth.c

Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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Heavily modified for GnuPG by Werner Koch

/

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DRBG: Deterministic Random Bits Generator
Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:
CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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Test Socket Type

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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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Mozilla Public License

Version 2.0
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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
  Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License
Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

   ```shell-session
   export CONSUL_LICENSE=<LICENSE_VALUE>
   ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

   ```shell-session
   export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
   ```

1. Configure the `license_path` option in the configuration file to point to the file containing the license.

   ```hcl
   license_path = "<PATH>/<TO>/<FILE>"
   ```

   --> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the
expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file

1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

-> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

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<fieldset>
  <div>
    <group.Element
      @name="HeaderType"
      @type="select"
      as |el|>
      <el.Label>Header type</el.Label>
      <PowerSelect
        @options={{headerTypes}}
        @selected={{headerType}}
        @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
        {{get headerLabels Type}}
      </PowerSelect>
    </group.Element>
    <group.Element
      @name="Name"
      @error={{changeset-get changeset 'error.Name'}}
      as |el|>
      <el.Label>Header name</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}}/>
    </group.Element>
  </div>
</fieldset>

{{#if shouldShowValueField}}
  <group.Element
    @name="Value"
    @error={{changeset-get changeset 'error.Value'}}
    as |el|>
    <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
    <el.Text
      @value={{changeset-get changeset 'Value'}}
      @error={{changeset-get changeset 'error.Value'}}
      oninput={{action 'change' 'Value' changeset}}/>
  </group.Element>
{{/if}}
# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.
When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

#### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `start_join` or `retry_join` configurations. If those are both unset or no `agent` token is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also
like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

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#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
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Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spierrmar@gmail.com>
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package api

import (  
"io/ioutil"  
"strings"
)
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply

    // The unique identifier of the license
    LicenseID string `json:"license_id"

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"

    // The product the license is valid for
    Product string `json:"product"

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"

    // List of features enabled by the license
    Features []string `json:"features"
}
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
} else {
    return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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# Notice

Presentational component for informational/warning/error banners/notices.

```html
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)

---

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@import '/skin';
@import './layout';

%notice {
  margin: 1em 0;
}
/**/
.notice.success {
  @extend %notice-success;
}
.notice.warning {
  @extend %notice-warning;
}
.notice.error {
  @extend %notice-error;
}
.notice.info {
  @extend %notice-info;
}
.notice.highlight {
  @extend %notice-highlight;
}
.notice.policy-management {
  @extend %notice-highlight;
}
.notice.crd::before {
  -webkit-mask-image: none;
  mask-image: none;
  background-color: transparent;
  @extend %with-logo-kubernetes-color-icon;
}
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%notice {
  border-radius: $decor-radius-100;
  border: $decor-border-100;
  color: $black;
}

%notice::before {
  @extend %as-pseudo;
}

%notice header > * {
  @extend %h300;
}

%notice footer * {
  @extend %p3;
  font-weight: $typo-weight-bold;
}

%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
  @extend %notice;
}

%notice-success {
  background-color: $green-050;
  border-color: $green-500;
}

%notice-info {
  border-color: $blue-100;
  background-color: $gray-010;
}

%notice-info header * {
  color: $blue-700;
}

%notice-highlight {
  background-color: $gray-050;
  border-color: $gray-300;
}

%notice-info header * {
  color: $gray-700;
}

%notice-warning {
  border-color: $yellow-100;
  background-color: $yellow-050;
}

%notice-warning header * {
  color: $yellow-800;
}
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# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](https://www.consul.io/docs/enterprise/upgrades) for details.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)
- [Consul License Documentation](https://www.consul.io/docs/enterprise/license)
- [License configuration values documentation](https://www.consul.io/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-
## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit. Consul client agents will attempt to retrieve the license from servers if certain conditions are met:
- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?
### VM

1. Run `consul license get -signed` to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the Enterprise License Tutorial for detailed steps on how to install the license key.
1. Follow the Consul upgrade documentation.

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in Kubernetes - Consul Enterprise.
1. Follow the Kubernetes Upgrade Docs to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

-> **WARNING:** If you are upgrading the Helm chart but not upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See Kubernetes - Consul Enterprise for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the Enterprise License Tutorial for detailed steps on how to install the license key.
1. Follow the Consul upgrade documentation.

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version. You will need to add the following configuration.

```yaml
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

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# License - Operator HTTP API

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), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#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 \n   http://127.0.0.1:8500/v1/operator/license
```
### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUT</td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and
<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

```shell-session
$ 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"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ]
  }
}```
## Resetting the Consul License

**Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</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], consistency modes[/api/features/consistency], agent caching[/api/features/caching], and required ACLs[/api#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 Request

```shell-session
$ curl \
--request DELETE \
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-8ffe-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": []
}

```
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  ul > li {
    @extend %list-row-200;
  }
}
```

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Portions of the client are based on code at: https://github.com/google/go-github/

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

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{{#if (gt items.length 0)}}
<ListCollection class="consul-intention-permission-header-list"
  @items={{items}}
  @scroll="native"
  @cellHeight={{42}}
  as |item|>
  <BlockSlot @name="details">
    <dl>
      <dt>
        <Tooltip>Header</Tooltip>
      </dt>
    </dl>
  </BlockSlot>
</ListCollection>

[{{#if (gt items.length 0)}}]
<dd>
  {{item.Name}} {{route-match item}}
</dd>
</dl>
</BlockSlot>
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<Actions as |Action|>
<Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
  <BlockSlot @name="label">
    Delete
  </BlockSlot>
  <BlockSlot @name="confirmation" as |Confirmation|>
    <Confirmation class="warning">
      <BlockSlot @name="header">
        Confirm delete
      </BlockSlot>
      <BlockSlot @name="body">
        <p>
          Are you sure you want to delete this header?
        </p>
      </BlockSlot>
      <BlockSlot @name="confirm" as |Confirm|>
        <Confirm>Delete</Confirm>
      </BlockSlot>
    </Confirmation>
  </Confirmation>
</Action>
</Actions>
</BlockSlot>
</ListCollection>

.consul-intention-permission-list {
  dt::before {
    @extend %with-glyph-icon;
  }
  dl.permission-methods dt::before {
    content: 'M';
  }
  dl.permission-path dt::before {
    content: 'P';
  }
  dl.permission-header dt::before {
    content: 'H';
  }
}
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/**
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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"
}
KeyName *string `json:"keyName",omitempty" xmlrpc:"keyName",omitempty"

Name *string `json:"name",omitempty" xmlrpc:"name",omitempty"

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Tamir Duberstein <tamird@gmail.com>
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@page
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
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* /opt/cola/permits/1111463293_1606928031.65/0/morphia-0-105-sources-2-
1.2122 gomodule-redigo 2.0.0+incompatible
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* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/exception/ValueException.java
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* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constant/OPSize.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/AnchorNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/exception/ValueException.java
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* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/OptMapInfo.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constant/OPSize.java

1.2124 readline 7.0 10.el8

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jar/jnr/enxio/channels/PollSelectionKey.java
* /opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-
jar/jnr/enxio/channels/PollSelector.java
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jar/jnr/enxio/channels/NativeFileSelectorProvider.java
* /opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-
jar/jnr/enxio/channels/KQSelectionKey.java
* /opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-
jar/jnr/enxio/channels/NativeSelectableChannel.java
*/opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio/channels/Native.java
*/opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-jar/jnr/enxio/channels/NativeSelectorProvider.java
*/opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-jar/jnr/enxio/channels/NativeServerSocketChannel.java
*/opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-jar/jnr/enxio/channels/NativeDeviceChannel.java
*/opt/cola/permits/1257321127_1642800623.26/0/jnr-enxio-0-32-10-sources-jar/jnr/enxio/channels/KQSelector.java

1.2128 ipmi-tool 1.8.18-17.el8

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;
my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, {} ]); 

{ lock(%hash); ... } 

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>
Note that if this module is imported when \texttt{threads} has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

\texttt{C<share>} takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

\texttt{C<share>} will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the \texttt{C<:shared>} attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = \%hash;
$hash{'ary'} = @array;
$array[1] = $var;

# The following are errors:
# $var = $bork;                    # ref of non-shared variable
# $hash['bork'] = [];               # non-shared array ref
# push(@array, [ 'x' => 1 ]);      # non-shared hash ref

=item shared_clone REF
C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

```perl
my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});
```

Object status (i.e., the class an object is blessed into) is also cloned.

```perl
my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");  # Outputs 'Foo'
```

For cloning empty array or hash refs, the following may also be used:

```perl
$var = &share([]);   # Same as $var = shared_clone([]);
$var = &share({});   # Same as $var = shared_clone({});
```

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

```perl
$threads::shared::clone_warn = 1;
```

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

```perl
$threads::shared::clone_warn = 0;
```

then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to C<refaddr()> (see L<Scalar::Util>). Otherwise, returns C<undef>.

```perl
if (is_shared($var)) {
    print("\$var is shared\n");
} else {
    print("\$var is not shared\n");
}
```

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

```perl
my %hash :shared;
```
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{\'elem\'} = 1;
if (is_shared($hash{\'elem\'})) {
    print("$hash{\'elem\'} is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);       # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my %hash :shared;
$hash{\'foo\'} = \'bar\';
#lock($hash{\'foo\'});        # Error
lock(%hash);                  # Works

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.
The `cond_wait` function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that `cond_wait` blocked on is re-locked after the `cond_wait` is satisfied. If there are multiple threads `cond_wait`ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using `cond_wait` for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, `cond_wait` takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread `cond_signal` or `cond_broadcast` on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

In its two-argument form, `cond_timedwait` takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like `cond_wait`, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like `cond_wait`, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if Sok, otherwise we timed out!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

{ no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that L<blessings> propagate across threads.

# Create a shared 'Foo' object
my $foo :shared = shared_clone({ });
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({ });
bless($bar, 'Bar');
# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
    bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
})->join();

print(ref($foo), "\n");    # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");    # Prints 'Yang'
print(ref($bar), "\n");    # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99};
bless($foo, 'foo');

# Share the object
share($foo);  # Contents are now wiped out
print("ERROR: \$foo is empty\n")
   if (! exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar
and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does
not propagate the blessing to the shared reference:

my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz');  # $foo is now of class 'baz',
   # but $bar->{foo} is unblessed.

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been
written to support sharing. For example, a shared object's destructor may
get called multiple times, once for each thread's scope exit, or may not
get called at all if it is embedded inside another shared object. Another
issue is that the contents of hash-based objects will be lost due to the
above mentioned limitation. See F<examples/class.pl> (in the CPAN
distribution of this module) for how to create a class that supports object
sharing.

Destructors may not be called on objects if those objects still exist at
global destruction time. If the destructors must be called, make sure
there are no circular references and that nothing is referencing the
objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing
array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not
autovivify the elements, and neither does slicing a shared array/hash over
non-existent indices/keys autovivify the elements.
C<share()> allows you to C<< share($hashref->{key}) >> and
C<< share($arrayref->[idx]) >> without giving any error message. But the
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing
the error "lock can only be used on shared values" to occur when you attempt
to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another
thread.

Using C<refaddr()> is unreliable for testing
whether or not two shared references are equivalent (e.g., when testing for
circular references). Use L<is_shared()|/is_shared VARIABLE>, instead:

use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}

L<each()|perlfunc/each HASH> does not work properly on shared references
embedded in shared structures. For example:

my %foo :shared;
$foo{bar} = shared_clone({'a'=>x, 'b'=>y, 'c'=>z});

while (my ($key, $val) = each(%{$foo{bar}})) {
    ...
}

Either of the following will work instead:

my $ref = $foo{bar};
while (my ($key, $val) = each(%{$ref})) {
    ...
}

foreach my $key (keys(%{$foo{bar}})) {
    my $val = $foo{bar}[$key];
    ...
}

This module supports dual-valued variables created using C<dualvar()> from
L<Scalar::Util>. However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code repository for CPAN distribution:

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

threads::shared is released under the same license as Perl.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*

***********************************************************************
ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

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.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name         show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<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 F<ppport.h> if you intend to be backward compatible only.
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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. Warnings will still be displayed.

=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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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

=item *

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.

=item *

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 F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables 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 F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<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>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
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<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pbyte()</td>
<td>NEED_sv_2pbyte</td>
<td>NEED_sv_2pbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpervf_mg()</td>
<td>NEED_sv_catpervf_mg</td>
<td>NEED_sv_catpervf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpervf_mg_nocontext()</td>
<td>NEED_sv_catpervf_mg_nocontext</td>
<td>NEED_sv_catpervf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#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
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.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

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) 2004-2009, 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;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
)
strip => 0,
version => 0;

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = "[ \t\]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/*';
my $cce = '*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! strip version
        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.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}
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 ) : ())
  ) } qw(
  AvFILLp|5.004050||p
  AvFILL||
  CLASS||n
  CPERLscope|5.005000||p
  Cx_CURPAD_SAVE||
  Cx_CURPAD_SV||
  CopFILEAV|5.006000||p
  CopFILEGV_set|5.006000||p
  CopFILEGV|5.006000||p
  CopFILE|5.006000||p
  CopFILE_set|5.006000||p
  CopFILE|5.006000||p
  CopSTASHPV_set|5.006000||p
  CopSTASHPV|5.006000||p
  CopSTASH_eq|5.006000||p
  CopSTASH_set|5.006000||p
  CopSTASH|5.006000||p
  CopyD|5.009002||p
  Copy||
  CvPADLIST||
  CvSTASH||
  CvWEAKOUTSIDE||
  DEFSV_set|5.011000||p
  DEFSV|5.004050||p
  END_EXTERN_C|5.005000||p
  ENTER||
  ERRSV|5.004050||p
  EXTEND||
  EXTERN_C|5.005000||p
  F0convert||n
  FREETMPS||
  GIMME_V|5.004000||n
  GIMME||n
  GROK_NUMERIC_RADIX|5.007002||p
  G_ARRAY||
  G_DISCARD||
  G_EVAL||
  G_METHOD|5.006001||p

Open Source Used In Cisco Identity Services Engine 3.2 48911
G_NOARGS
G_SCALAR
G_VOID[5.004000]
GetVars
GvSVn[5.009003]
GvSV
Gv_AMupdate
HEf_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.011000]
HeVAL[5.004000]
HvNAMELEN_get[5.009003]
HvNAME_get[5.009003]
HvNAME
INT2PTR[5.006000]
IN_LOCALE_COMPILETIME[5.007002]
IN_LOCALE_RUNTIME[5.007002]
IN_LOCALE[5.007002]
IN_PERL_COMPILETIME[5.008001]
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]
IS_NUMBER_INFINITY[5.007002]
IS_NUMBER_IN_UV[5.007002]
IS_NUMBER_NAN[5.007003]
IS_NUMBER_NEG[5.007002]
IS_NUMBER_NOT_INT[5.007002]
IVSIZE[5.006000]
IVTYPE[5.006000]
IVdf[5.006000]
LEAVE
LVRET
MARK
MULTICALL[5.011000]
MY_CXT_CLONE[5.009002]
MY_CXT_INIT[5.007003]
MY_CXT[5.007003]
MoveD[5.009002]
Move
NOOP[5.005000]
NUM2PTR[5.006000]
NVTYPE[5.006000]
NVef[5.006001]
NVff[5.006001]
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
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_DUP||
PAD_RESTORE_LOCAL||
PAD_SAVE_LOCAL||
PAD_SAVE_SETNULLPAD||
PAD_SETSV||
PAD_SET_CUR_NOSAVE||
PAD_SET_CUR||
PAD_SV||
PAD_SV||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.011000||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bnum|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only|||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg|5.009001||p
SvIV_set||
SvIVs||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
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<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SvNIOK_off</td>
<td></td>
</tr>
<tr>
<td>SvNIOKp</td>
<td></td>
</tr>
<tr>
<td>SvNIOK</td>
<td></td>
</tr>
<tr>
<td>SvNOK_off</td>
<td></td>
</tr>
<tr>
<td>SvNOK_only</td>
<td></td>
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sv_utf8_upgrade|5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvf|5.006000|5.004000|
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvf|5.006000|5.004000|
sv_xmlpeek||
svtype||
swallow_bom||
swap_match_buft||
swash_fetch|5.007002|
swash_get||
swash_init|5.006000|
sys_init3|5.010000|n
sys_init|5.010000|n
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
sys_term|5.010000|n
taint_env||
taint_proper||
tmps_grow|5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold|5.007003|
to_uni_lower_lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_lc|5.006000|
to_uni_upper|5.007003|
to_utf8_case|5.007003|
to_utf8_fold|5.007003|
to_utf8_lower|5.007003|
to_utf8_substr||
to_utf8_title|5.007003|
to_utf8_upper|5.007003|
token_free||
token_getmad||
tokenize_use||
tokeneq||
tokereport||
vverify[5.009003]
vwarner[5.006000]
vwarn[5.006000]
wait4pid|
warn_nocontext]|vn
warner_nocontext]|vn
warn[5.006000|5.004000]pv
warn[|v
watch|
whichsig|
write_no_mem|
write_to_stderr|
xmldump_all|
xmldump_attr|
xmldump_eval|
xmldump_form|
xmldump_indent|
xmldump_packsubs|
xmldump_sub|
xmldump_vindent|
yerror|
yylex|
yyparse|
yywarn|
);
grep { exists $API{$_} } $code =~ /(^w+)\;/mg;

while (<DATA>) {
  if ($Hint) {
    my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
    if (m{^[^s]*\s+.*\s+$}) {
      for (@{$hint->[1]}) {
        $h->{$_} ||= '';  # suppress warning with older perls
        $h->{$_} .= "$1\n";
      }
    } else { undef $hint }
  }

  $hint = [$_, [split /,\s+/, $2]]
  if (m{^[^s]*srccs\s+(Hint|Warning)\s+(\w+(?:,\w+)*)\s*$});

  if ($define) {
    if ($define->[1] =~ /$/) {
      $define->[1] .= $_;
    } else {
      if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_/) {
        my @n = find_api($define->[1]);
        push @{$depends{$define->[0]}}, @n if @n
      } undef $define;
    }
  }

  $define = [$_, $2] if m{^[^s]*#s*define\s+(\w+(?:,\w+)*)\s*($)};

  if ($function) {
    if (/\$/) {
      if (exists $API{$function->[0]} && $function->[1] !~ /^DPPP_/) {
        my @n = find_api($function->[1]);
        push @{$depends{$function->[0]}}, @n if @n
      } undef $function;
    } else {
      $function->[1] .= $_;
    }
  }

  $function = [$_, ""] if m{^DPPP_\(my_\(\w+\))};
$replace = $1 if m{^\s+$rcce\s+Replace:\s+(\d+)//s+($rcce\s+$)};
$replace{$2} = $1 if $replace and m{^\s+\#s+\*define\s+(\w+)(?!:\(\^[!\s])\s+$rcce\s+$};
$replace{$2} = $1 if m{^\s+\#s+\*define\s+(\w+)(?!:\(\^[!\s])\s+$rcce\s+$};
$replace{$1} = $2 if m{^\s+$rcce\s+Replace \s+(\w+) \s+with \s+(\w+)\s+$rcce\s+$};

if (m{^\s+$rcce\s+\*depends\s+on\s+(\w+)(?!:\(\^[!\s])\s+$rcce\s+$}) { my @deps = map { s/\s+///g; $_. split /, / } 3;
my $d;
for $d (map { s/\s+///g; $_. split /, / } 1) {
push @$deps{$d}, @deps;
}
}

$need{$1} = 1 if m{^\s+\*if\s+\*defined\(NEED_\((\w+)\)?_GLOBAL\?)\s+$rcce\s+$};
}

for (values %depends) {
my %s;
$_ = [sort grep !$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 "Depends on: \, \, \, \, \, \, \, \, \, @\{depends\{$f\}\}, \"\n" if exists $depends{$f};
print "\n\nHints\{$f\}" if exists $hints{$f};
print "\n\nWarnings\{$f\}" if exists $warnings{$f};
$info++;
}
print "No portability information available\n" unless $info;
$count++;
}
$count or print "Found no API matching 'Sopt[\api-info\]'\n";
print "\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};
        push @flags, 'warning' if exists $warnings{$f};
        my @flags = @flags ? ['join('', ', @flags).'] : "
        print "$f$flags
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            }
            else { warn "'$_' is not a file.\n" }
        }
        else {
            my @new = grep { -f } glob $_
            or warn "'$_' does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
}
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;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

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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}) {
        $file{uses_provided}{$func}++;
        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) {
                $file{needs}{$_} = 'static' if exists $need{$_};
            }
        }
    }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~ /$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 @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
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};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}

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for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with "$ppport\n";
        $warnings++;
    }
}

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') {
            diag("Uses $func");
            $file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
        } else {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        }
    }
}
$message = "No need to define NEED_${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";
} } } 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$HS+NEED_.*$pp/m)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#?define$HS+NEED_\w\w+.?)/$1$pp/ms)
        || ($c =~ s/^(?=$HS*#?define$HS+NEED_\w+/.*$1$pp/m)
        || ($c =~ s/^(?=$HS*#?include.*$ppport(E)/$pp/m)
        || ($c =~ s/^(?=$HS*#?include.*XSUB.*\s*?)^/$1$pp/m)
        || ($c =~ s/\$/\$pp/);
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# 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} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

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") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } else {
        if (open F, ">$newfile") {
            info("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: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
}
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 try_use { eval "use @_;": return $@ eq "");

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 try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $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;
        }
    }

    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 rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; 
    @{$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{3})(\d{3})/;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver\n";
        }
    }

    return ($r, $v, $s);
}
sub format_version
{
    my $ver = shift;

    $ver =~ s/$/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 "%.%d.%d", $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;
    printf "*** \", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($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;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {

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eval { require Devel::PPPort; 
\$@ and die "Cannot require Devel::PPPort, please install.\n"; 
if (eval \$Devel::PPPort::VERSION < \$VERSION) { 
  die "$0 was originally generated with Devel::PPPort \$VERSION.\n" 
  . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" 
  . "Please install a newer version, or --unstrip will not work.\n"; 
} 
Devel::PPPort::WriteFile($0); 
exit 0; 
} 
print <<END; 
Sorry, but this is a stripped version of \$0. 
To be able to use its original script and doc functionality, 
please try to regenerate this file using: 
\$^X \$0 --unstrip 
END 
/m;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{ 
  / (?: \^\[^\]*\*+(?:\[^$ccs]\[^\]*\*+) \^\[\^\*\]* / | /\^\[\^\*\]*) 
  | \^\[\^\*\]*\^[?\:\[\^\*\]*\]^\[\^\*\]* 
  | \^\[\^\*\]*\^[?\:\[\^\*\]*\]^\[\^\*\]* \^\[\^\*\]* \] \^\[\^\*\]*\^[?\:\[\^\*\]*\]^\[\^\*\]* 
  | \^[?\:\[\^\*\]*\]^\[\^\*\]* \] \^\[\^\*\]* }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!\n";
print OUT "$pl$c\n";
exit 0; 
}

__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension for sharing data structures between threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: '0'
  Config: '0'
  ExtUtils::testlib: '0'
  Scalar::Util: '0'
  Test::More: '0'
  XSLoader: '0'
  strict: '0'
  threads: '1.73'
  warnings: '0'
  version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*    shared.xs
 *       Copyright (c) 2001-2002, 2006 Larry Wall
 *       You may distribute under the terms of either the GNU General Public
 *       License or the Artistic License, as specified in the README file.
 *       "Hand any two wizards a piece of rope and they would instinctively pull in
 *       opposite directions."
 *       --Sourcery
 *       Contributed by Artur Bergman <sky AT crucially DOT net>
 *       Pulled in the (an)other direction by Nick Ing-Simmons
*/
* Shared variables are implemented by a scheme similar to tieing.
* Each thread has a proxy SV with attached magic -- "private SVs" --
* which all point to a single SV in a separate shared interpreter
* (PL_sharedsv_space) -- "shared SVs".
*
* The shared SV holds the variable's true values, and its state is
* copied between the shared and private SVs with the usual
* mg_get()/mg_set() arrangement.
*
* Aggregates (AVs and HVs) are implemented using tie magic, except that
* the vtable used is one defined in this file rather than the standard one.
* This means that where a tie function like FETCH is normally invoked by
* the tie magic's mg_get() function, we completely bypass the calling of a
* perl-level function, and directly call C-level code to handle it. On
* the other hand, calls to functions like PUSH are done directly by code
* in av.c, etc., which we can't bypass. So the best we can do is to provide
* XS versions of these functions. We also have to attach a tie object,
* blessed into the class threads::shared::tie, to keep the method-calling
* code happy.
*
* Access to aggregate elements is done the usual tied way by returning a
* proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
* of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
* object SVs. These pointers have to be hidden like this because they
* cross interpreter boundaries, and we don't want sv_clear() and friends
* following them.
*
* The three basic shared types look like the following:
*
* -----------------
* Shared scalar (my $s : shared):
* -----------------
* SV = PVMG(0x7ba238) at 0x7387a8
* FLAGS = (PADMY,GMG,SMG)
* MAGIC = 0x824d88
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x810358 <<<< pointer to the shared SV
*
* Shared aggregate (my @a : shared; my %h : shared):

* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0 <<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 <<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000 <<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358 "" <<< another pointer to the shared AV
* ARRAY = 0x0

* -----------------

* Aggregate element (my @a : shared; $a[0])

* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 "" <<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 <<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064 <<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t

* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
  * shared SV in mg_ptr; instead this is used to store the hash key,
  * if any, like normal tied elements. Note also that element SVs may have
  * pointers to both the shared aggregate and the shared element.

* Userland locks:

* If a shared variable is used as a perl-level lock or condition
  * variable, then PERL_MAGIC_ext magic is attached to the associated
  * shared* SV, whose mg_ptr field points to a malloc'ed structure
  * containing the necessary mutexes and condition variables.
* Nomenclature:

* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#endif

#define UL_MAGIC_SIG 0x554C  /* UL = user lock */

static PerlInterpreter *PL_sharedsv_space;             /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

#ifndef CLANG_DIAG_IGNORE
#define CLANG_DIAG_IGNORE(x)
#define CLANG_DIAG_RESTORE
#endif

#ifndef CLANG_DIAG_IGNORE_STMT
#define CLANG_DIAG_IGNORE_STMT(x) CLANG_DIAG_IGNORE(x) NOOP
#define CLANG_DIAG_RESTORE_STMT CLANG_DIAG_RESTORE NOOP
#endif

#ifdef USE_ITHREADS
/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C  /* UL = user lock */

/*
 * The shared things need an interpreter to live in ...
 */
static PerlInterpreter *PL_sharedsv_space;             /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
 * SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
 * while in the shared interpreter context don't languish */

#define SHARED_CONTEXT
STMT_START {  
  PERL_SET_CONTEXT((aTHX = PL_sharedsv_space)); 
  
*/
/* So we need a way to switch back to the caller's context... */
/* So we declare another copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
STMT_START {
FREETMPS;
LEAVE;
PERL_SET_CONTEXT((aTHX = caller_perl));
} STMT_END

/*
* Only one thread at a time is allowed to mess with shared space.
*/
typedef struct {
    perl_mutex    mutex;
    PerlInterpreter *owner;
    I32       locks;
    perl_cond   cond;
#ifdef DEBUG_LOCKS
    const char * file;
    int         line;
#endif
} recursive_lock_t;

static recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

static void
recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

static void
recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}
static void recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

static void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, const char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
#ifdef DEBUG_LOCKS
            Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n", aTHX, lock->owner, lock->file, lock->line);
#endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
#ifdef DEBUG_LOCKS
        lock->file  = file;
        lock->line  = line;
#endif
    }
    MUTEX_UNLOCK(&lock->mutex);
    SAVEDESTROYER_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
STMT_START {
    ENTER;
    recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
} STMT_END

/* The unlocking is done automatically at scope exit */
/* A common idiom is to acquire access and switch in ... */
#define SHARED>Edit
STMT_START {
    ENTER_LOCK;
    SHARED_CONTEXT;
} STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
STMT_START {
    CALLER_CONTEXT;
    LEAVE_LOCK;
} STMT_END

/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code
*/

typedef struct {
    recursive_lock_t lock;  /* For user-level locks */
    perl_cond user_cond;    /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs

   The vtable used has just one entry - when the SV goes away
   we free the memory for the above.
*/

static int
sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
    return (0);
}
static const MGVTBL sharedsv_userlock_vtbl = {
0,  /* get */
0,  /* set */
0,  /* len */
0,  /* clear */
sharedsv_userlock_free,  /* free */
0,  /* copy */
0,  /* dup */
#ifdef MGf_LOCAL
0,  /* local */
#endif
};

/* Support for dual-valued variables */
#ifdef SVf_IVisUV
#define DUALVAR_FLAGS(sv)                             
  ((SvPOK(sv))                                        
   ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK \            
      : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV) \      
        : ((SvIKO(sv) || SviOKP(sv)) ? SVf_IK0 : 0)) \  
        : 0)
#else
#define DUALVAR_FLAGS(sv)                             
  ((SvPOK(sv))                                        
   ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK \          
      : ((SvIKO(sv) || SviOKP(sv)) ? SVf_IK0 : 0))    
      : 0)
#endif

/* Access to shared things is heavily based on MAGIC */
/* - in mg.h/mg.c/sv.c sense */
/* */
/* In any thread that has access to a shared thing there is a "proxy" */
/* for it in its own space which has 'MAGIC' associated which accesses */
/* the shared thing. */
/* */
extern const MGVTBL sharedsv_scalar_vtbl;  /* Scalars have this vtable */
extern const MGVTBL sharedsv_array_vtbl;   /* Hashes and arrays have this */
  - like 'tie' */
extern const MGVTBL sharedsv_elem_vtbl;    /* Elements of hashes and arrays have */
  this _AS WELL AS_ the scalar magic:
The sharedsv_elem_vtbl associates the element with the array/hash and
the sharedsv_scalar_vtbl associates it with the value

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */

#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
* If create is true, create one if it doesn't exist
*/
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
  MAGIC *mg;
  user_lock *ul = NULL;

  assert(ssv);
  /* XXX Redesign the storage of user locks so we don't need a global
   * lock to access them ???? DAPM */
  ENTER_LOCK;

  /* Version of mg_find that also checks the private signature */
  for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
    if ((mg->mg_type == PERL_MAGIC_ext) &&
        (mg->mg_private == UL_MAGIC_SIG))
    {
      break;
    }
  }

  if (mg) {
    ul = (user_lock*)(mg->mg_ptr);
  } else if (create) {
    dTHXc;
    SHARED_CONTEXT;
    ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
    Zero(ul, 1, user_lock);
    /* Attach to shared SV using ext magic */
    mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                    (char *)ul, 0);
    mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
    recursive_lock_init(aTHX_ &ul->lock);
    COND_INIT(&ul->user_cond);
    CALLER_CONTEXT;
  }
  LEAVE_LOCK;
}
/* Given a private side SV tries to find if the SV has a shared backend, 
* by looking for the magic. 
*/
static SV *
Perl_sharedsv_find(pTHX_SV *sv)
{
MAGIC *mg;
if (SvTYPE(sv) >= SVt_PVMG) {
    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if ((mg = mg_find(sv, PERL_MAGIC_tied))
            && mg->mg_virtual == &sharedsv_array_vtbl) {
            return ((SV *)mg->mg_ptr);
        }
        break;
    default:
        /* This should work for elements as well as they 
        * have scalar magic as well as their element magic 
        */
        if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
            && mg->mg_virtual == &sharedsv_scalar_vtbl) {
            return ((SV *)mg->mg_ptr);
        }
        break;
    }
} /* Just for tidyness of API also handle tie objects */
if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
    return (SHAREDSV_FROM_OBJ(sv));
}
return (NULL);
}

/* Associate a private SV with a shared SV by pointing the appropriate 
* magics at it. 
* Assumes lock is held. 
*/
static void
Perl_sharedsv_associate(pTHX_SV *sv, SV *ssv)
{
MAGIC *mg = 0;
/* If we are asked for any private ops we need a thread */
assert( aTHX != PL_sharedsv_space );

/* To avoid need for recursive locks require caller to hold lock */
assert( PL_sharedsv_lock.owner == aTHX );

switch(SvTYPE(sv)) {
  case SVt_PAV:
  case SVt_PHV:
    if (!(mg = mg_find(sv, PERL_MAGIC_tied))
     || mg->mg_virtual != &sharedsv_array_vtbl
     || (SV*) mg->mg_ptr != ssv)
    {
      SV *obj = newSV(0);
      sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
      if (mg) {
        sv_unmagic(sv, PERL_MAGIC_tied);
      }
      mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                       (char *)ssv, 0);
      mg->mg_flags |= (MGf_COPY|MGf_DUP);
      SvREFCNT_inc_void(ssv);
      SvREFCNT_dec(obj);
    }
    break;
  default:
    if ((SvTYPE(sv) < SVt_PVMG)
     || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
     || mg->mg_virtual != &sharedsv_scalar_vtbl
     || (SV*) mg->mg_ptr != ssv)
    {
      if (mg) {
        sv_unmagic(sv, PERL_MAGIC_shared_scalar);
      }
      mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
                       &sharedsv_scalar_vtbl, (char *)ssv, 0);
      mg->mg_flags |= (MGf_DUP|
#ifdef MGf_LOCAL
    MGf_LOCAL
#endif)
    #ifdef MGf_LOCAL
      MGf_LOCAL
    #endif
    SvREFCNT_inc_void(ssv);
    }
    break;
  }

assert ( Perl_sharedsv_find(aTHX, sv) == ssv );
/* Given a private SV, create and return an associated shared SV.  
* Assumes lock is held.  
*/  
STATIC SV *  
S_sharedsv_new_shared(pTHX_SV *sv)  
{  
    dTHXc;  
    SV *ssv;  

    assert(PL_sharedsv_lock.owner == aTHX);  
    assert(aTHX != PL_sharedsv_space);  

    SHARED_CONTEXT;  
    ssv = newSV(0);  
    SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */  
    sv_upgrade(ssv, SvTYPE(sv));  
    CALLER_CONTEXT;  
    Perl_sharedsv_associate(aTHX, ssv);  
    return (ssv);  
}  

/* Given a shared SV, create and return an associated private SV.  
* Assumes lock is held.  
*/  
STATIC SV *  
S_sharedsv_new_private(pTHX_SV *ssv)  
{  
    SV *sv;  

    assert(PL_sharedsv_lock.owner == aTHX);  
    assert(aTHX != PL_sharedsv_space);  

    sv = newSV(0);  
    sv_upgrade(sv, SvTYPE(ssv));  
    Perl_sharedsv_associate(aTHX, ssv);  
    return (sv);  
}  

/* A threadsafe version of SvREFCNT_dec(ssv) */  
STATIC void  
S_sharedsv_dec(pTHX_SV* ssv)  
{  

"}
if (! ssv)
    return;
ENTER_LOCK;
if (SvREFCNT(ssv) > 1) {
    /* No side effects, so can do it lightweight */
    SvREFCNT_dec(ssv);
} else {
    dTHXc;
    SHARED_CONTEXT;
    SvREFCNT_dec(ssv);
    CALLER_CONTEXT;
}
LEAVE_LOCK;

/* Implements Perl-level share() and :shared */

static void
Perl_sharedsv_share(pTHX_ SV *sv)
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;
    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;
    default:
        ENTER_LOCK;
        (void) S_sharedsv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS      11644473600000.
/* Returns relative time in milliseconds.  (Adapted from Time::HiRes.) */
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
double rel;

/* Get current time (in units of 100 nanoseconds since 1/1/1601) */
union {
    FILETIME ft;
    __int64  i64;   /* 'signed' to keep compilers happy */
} now;

GetSystemTimeAsFileTime(&now.ft);

/* Relative time in milliseconds */
rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
if (rel <= 0.0) {
    return (0);
}
return (DWORD)rel;

#else
# if defined(OS2)
#  define ABS2RELMILLI(abs)             
    do {                                
        abs -= (double)time(NULL);      
        if (abs > 0) { abs *= 1000; }   
        else         { abs  = 0;    }   
    } while (0)
# endif /* OS2 */
#if defined(WIN32)
static bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
    #if defined(NETWARE) || defined(I_MACH_CTHREADS)
        Perl_croak_nocontext("cond_timedwait not supported on this platform");
    #else
        # ifdef WIN32
            int got_it = 0;
            cond->waiters++;
            MUTEX_UNLOCK(mut);
            /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
            switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
                case WAIT_OBJECT_0: got_it = 1; break;
                case WAIT_TIMEOUT:                break;
                default:
                    /* WAIT_FAILED? WAIT_ABANDONED? others? */
                    break;
            }
            if (got_it) { cond->waiters--; MUTEX_LOCK(mut); }
    #endif
}
Perl_croak_nocontext("panic: cond_timedwait (%ld)", GetLastError());
    break;
}
MUTEX_LOCK(mut);
    cond->waiters--;
    return (got_it);
#else
    #ifdef OS2
    int rc, got_it = 0;
    STRLEN n_a;

    ABS2RELMILLI(abs);

    if (((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
        Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
MUTEX_UNLOCK(mut);
    if (CheckOSError(DosWaitEventSem(*cond,abs))
        && (rc != ERROR_INTERRUPT))
        croak_with_os2error("panic: cond_timedwait");
    if (rc == ERROR_INTERRUPT) errno = EINTR;
MUTEX_LOCK(mut);
    return (got_it);
#else     /* Hope you're I_PTHREAD! */
    struct timespec ts;
    int got_it = 0;

    ts.tv_sec = (long)abs;
    abs -= (NV)ts.tv_sec;
    ts.tv_nsec = (long)(abs * 1000000000.0);

    CLANG_DIAG_IGNORE_STMT(-Wthread-safety);
    /* warning: calling function 'pthread_cond_timedwait' requires holding mutex 'mut' exclusively [-Wthread-safety-analysis] */
    switch (pthread_cond_timedwait(cond, mut, &ts)) {
    CLANG_DIAG_RESTORE_STMT;
        case 0: got_it = 1; break;
        case ETIMEDOUT: break;
#endif
    ifdef OEMVS
        case -1:
            if (errno == ETIMEDOUT || errno == EAGAIN)
                break;
    endif
        default:
            Perl_croak_nocontext("panic: cond_timedwait");
            break;
    }
    return (got_it);
/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */

STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
        ((obj = SvRV(sv))) &&
        (Perl_sharedsv_find(aTHX_ obj) == sobj) &&
        (SvTYPE(obj) == SvTYPE(sobj))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvREFCNT_dec(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharedsv_new_private(aTHX_ sobj);
        SvRV_set(sv, obj);
    }
    if (SvOBJECT(obj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(obj));
        SvOBJECT_off(obj);
    }
    if (SvOBJECT(sobj)) {
        /* Add any new old blessing */
        STRLEN len;
        char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
        HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
        SvOBJECT_on(obj);
        SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
    }
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
 S_get_RV itself, as we do not want recursion beyond one level): */
```c
#define get_RV(sv, sobj)                     
    S_get_RV(aTHX_ sv, sobj);               
/* Look ahead for refs of refs */        
if (SvROK(sobj)) {                        
    SvROK_on(SvRV(sv));                   
    S_get_RV(aTHX_ SvRV(sv), SvRV(sobj));
}

/* ------------ PERL_MAGIC_shared_scalar(n) functions -------------- */
/* Get magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_get(pTHX_SV *sv, MAGIC *mg)
{
    SV *ssv = (SV *) mg->mg_ptr;
    assert(ssv);

    ENTER_LOCK;
    if (SvROK(ssv)) {
        get_RV(sv, SvRV(ssv));
    } else {
        sv_setsv_nomg(sv, ssv);
    }
    LEAVE_LOCK;
    return (0);
}

/* Copy the contents of a private SV to a shared SV. */
/* Used by various mg_set()-type functions. */
/* Assumes lock is held. */
static void
sharedsv_scalar_store(pTHX_SV *sv, SV *ssv)
{
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);
    if (!PL_dirty && &SvROK(ssv) && &SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX_ obj);
```
if (sobj) {
    SHARED_CONTEXT;
    (void)SvUPGRADE(ssv, SVt_RV);
    sv_setsv_nomg(ssv, &PL_sv_UNDEF);
    SvRV_set(ssv, SvREFCNT_inc(sobj));
    SvROK_on(ssv);
    if (SvOBJECT(sobj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(sobj));
        SvOBJECT_off(sobj);
    }
    if (SvOBJECT(obj)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)), 0);
        SvOBJECT_on(sobj);
        SvSTASH_set(sobj, (HV*)fake_stash);
        CALLER_CONTEXT;
    } else {
        allowed = FALSE;
    }
} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)), 0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
        CALLER_CONTEXT;
    }
    if (!allowed) {
        Perl_croak(aTHX_ "Invalid value for shared scalar");
    }
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */
static int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
}
assert(ssv);
ENTER_LOCK;
if (SvTYPE(ssv) < SvTYPE(sv)) {
    dTHXc;
    SHARED_CONTEXT;
    sv_upgrade(ssv, SvTYPE(sv));
    CALLER_CONTEXT;
}
sharedsv_scalar_store(aTHX__sv, ssv);
LEAVE_LOCK;
return (0);
}
/* Free magic for PERL_MAGIC_shared_scalar(n) */

static int
sharedsv_scalar_mg_free(pTHX__SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL__dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX__ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}
/*
 * Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
 */
static int
sharedsv_scalar_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
static int
sharedsv_scalar_mg_local(pTHX__SV* nsv, MAGIC *mg)
MAGIC *nmg;
SV *ssv = (SV *) mg->mg_ptr;
if (ssv) {
    ENTER_LOCK;
    SvREFCNT_inc_void(ssv);
    LEAVE_LOCK;
}

nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
    mg->mg_ptr, mg->mg_len);
nmg->mg_flags   = mg->mg_flags;
nmg->mg_private = mg->mg_private;

return (0);
}
#endif

const MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get,     /* get */
    sharedsv_scalar_mg_set,     /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_scalar_mg_free,    /* free */
    0,                          /* copy */
    sharedsv_scalar_mg_dup,     /* dup */
    #ifdef MGf_LOCAL
    sharedsv_scalar_mg_local,   /* local */
    #endif
    sharedsv_scalar_mg_local,   /* local */
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */

/* Get magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying
                      aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert ( mg->mg_ptr == 0 );
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);

            if (svp) {
                for (int i = 0; i < mg->mg_len; i++) {
                    if (svp[i]) {
                        sharedsv_magicext(pTHX_ mg->mg_obj, mg->mg_type,
                            mg->mg_flags, mg->mg_private,
                            mg->mg_virtual, mg->mg_ptr, mg->mg_len,
                            mg->mg_private);
                    }
                }
            } else {
                SHARED_CONTEXT;
            }

            SHARED_CONTEXT;
        }
    }

    return (0);
}
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert (mg->mg_ptr != 0);
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
   svp = hv_fetch((HV*) saggregate, key, len, 0);
    CALLER_CONTEXT;
}
if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* $ary->[elem] or $ary->{elem} is a scalar */
        Perl_sharedsv_associate(aTHX_ sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}
LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the
     * magic such that by the time we get here it has been stored
     * to its shared counterpart
     */
ENTER_LOCK;
assert(saggregate);
if (SvTYPE(saggregate) == SVt_PVAV) {
    assert (mg->mg_ptr == 0);
    SHARED_CONTEXT;
    svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert (mg->mg_ptr != 0);
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    svp = hv_fetch((HV*) saggregate, key, len, 1);
}
CALLER_CONTEXT;
Perl_sharedsv_associate(aTHX_ sv, *svp);
sharedsv_scalar_store(aTHX_ sv, *svp);
SvFLAGS(*svp) |= dualvar_flags;
LEAVE_LOCK;
return (0);

/* Clear magic for PERL_MAGIC_tiedelem(p) */

static int
sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (!saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if (((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
* thread */

static int
sharedsv_elem_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

const MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,   /* get */
    sharedsv_elem_mg_STORE,   /* set */
    0,                         /* len */
    sharedsv_elem_mg_DELETE,  /* clear */
    0,                         /* free */
    0,                         /* copy */
    sharedsv_elem_mg_dup,     /* dup */
#ifdef MGf_LOCAL
    0,                         /* local */
#endif
};

/* ------------ PERL_MAGIC_tied(P) functions -------------- */
/* Len magic for PERL_MAGIC_tied(P) */

static U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
    SHARED_RELEASE;
    return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

static int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
        I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)ssv);
        while (isav ? items-- : !!(iter = hv_iternext((HV *)ssv))) {
            SV *sv = isav ? *svp++ : HeVAL(iter);
            if (!sv) continue;
            if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
                && SvREFCNT(sv) == 1 ) {
                SV *tmp;
                PERL_SET_CONTEXT((aTHX = caller_perl));
                tmp = sv_newmortal();
                sv_upgrade(tmp, SVt_RV);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
}
if (isav) av_clear((AV*) ssv);
else      hv_clear((HV*) ssv);
SHARED_RELEASE;
return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */
static int
sharedsv_array_mg_free(pTHX_SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    return (0);
}

/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
static int
sharedsv_array_mg_copy(pTHX_SV *sv, MAGIC* mg,
        SV *nsv, const char *name, I32 namlen)
#else
static int
sharedsv_array_mg_copy(pTHX_SV *sv, MAGIC* mg,
        SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
        toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
        name, namlen);
    PERL_UNUSED_ARG(sv);
    nmg->mg_flags |= MGf_DUP;
    return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */
static int
sharedsv_array_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
assert(mg->mg_flags & MGf_DUP);
return (0);
}

const MGVTBL sharedsv_array_vtbl = {
0,    /* get */
0,    /* set */
sharedsv_array_mg_FETCHSIZE, /* len */
sharedsv_array_mg_CLEAR,     /* clear */
sharedsv_array_mg_free,      /* free */
sharedsv_array_mg_copy,      /* copy */
sharedsv_array_mg_dup,       /* dup */
#ifdef MGf_LOCAL
0,    /* local */
#endif
};

/* Recursive locks on a sharedsv.
 * Locks are dynamically scoped at the level of the first lock.
 */
static void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */
static void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?

* True if not a shared,
* or if destroying last proxy on a shared object
*/
#ifdef PL_destroyhook
static bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#ifdef PL_signalhook
STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;
    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */
static void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    /* The pair above leaves us in shared context (what dTHX would get),
    * but aTHX still points to caller context */
    aTHX = PL_sharedsv_space;
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX_ &PL_sharedsv_lock);
PL_lockhook = &Perl_sharedsv_locksv;
PL_sharehook = &Perl_sharedsv_share;
#ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
#endif
#ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
        PL_signalhook = &S_shared_signal_hook;
    }
#endif
#endif /* USE_ITHREADS */

MODULE = threads::shared        PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#ifdef USE_ITHREADS

void
PUSH(SV *obj, ...)
    CODE:
    dTHXc;
    SV *sobj = SHAREDSV_FROM_OBJ(obj);
    int ii;
    for (ii = 1; ii < items; ii++) {
        SV* tmp = newSVsv(ST(ii));
        SV *stmp;
        U32 dualvar_flags = DUALVAR_FLAGS(tmp);
        ENTER_LOCK;
        stmp = S_sharedsv_new_shared(aTHX_ tmp);
        sharedsv_scalar_store(aTHX_ tmp, stmp);
        SvFLAGS(stmp) |= dualvar_flags;
        SHARED_CONTEXT;
        av_push((AV*) sobj, stmp);
        SvREFCNT_inc_void(stmp);
        SHARED_RELEASE;
        SvREFCNT_dec(tmp);
    }

void
UNSHIFT(SV *obj, ...)
    CODE:
    dTHXc;
    SV *sobj = SHAREDSV_FROM_OBJ(obj);

#endif
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = S_sharedsv_new_shared(aTHX_tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SHARED_CONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLER_CONTEXT;
    SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void
POP(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_pop((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
SHIFT(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_shift((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
EXTEND(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_extend((AV*)sobj, count);
   SHARED_RELEASE;

void
STORESIZE(SV *obj,IV count)
CODE:
   dTHXc;
   SV *ssv = SHAREDSV_FROM_OBJ(obj);

   SHARED_EDIT;
   assert(SvTYPE(ssv) == SVt_PVAV);
   if (!PL_dirty) {
      SV **svp = AvARRAY((AV *)ssv);
      I32 ix = AvFILLp((AV *)ssv);
      for (;ix >= count; ix--) {
         SV *sv = svp[ix];
         if (!sv)
            continue;
         if (   (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
             && SvREFCNT(sv) == 1 )
         {
            SV *tmp;
            PERL_SET_CONTEXT((aTHX = caller_perl));
            tmp = sv_newmortal();
            sv_upgrade(tmp, SVt_RV);
            get_RV(tmp, sv);
            PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
         }
      }
   }
   av_fill((AV*) ssv, count - 1);
   SHARED_RELEASE;

void
EXISTS(SV *obj, SV *index)
CODE:
  dTHXc;
  SV *sobj = SHAREDSV_FROM_OBJ(obj);
  bool exists;
  if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
  } else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
      len = -len;
    }
    SHARED_EDIT;
    exists = hv_exists((HV*) sobj, key, len);
  }
  SHARED_RELEASE;
  ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

void
FIRSTKEY(SV *obj)
CODE:
  dTHXc;
  SV *sobj = SHAREDSV_FROM_OBJ(obj);
  char* key = NULL;
  I32 len = 0;
  HE* entry;
  ENTER_LOCK;
  SHARED_CONTEXT;
  hv_iterinit((HV*) sobj);
  entry = hv_iternext((HV*) sobj);
  if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
  } else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
  }
  LEAVE_LOCK;
/* XSRETURN(1); - implied */
void
NEXTKEY(SV *obj, SV *oldkey)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;

PERL_UNUSED_VAR(oldkey);

ENTER_LOCK;
SHARED_CONTEXT;
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

MODULE = threads::shared        PACKAGE = threads::shared

PROTOTYPES: ENABLE

void
_id(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
SV *ssv;
CODE:
    myref = SvRV(myref);
    if (SvMAGICAL(myref))
        mg_get(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        XSRETURN_UNDEF;
    ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
/* XSRETURN(1); - implied */
void
_refcnt(SV *myref)
PROTOTYPE: \[$@\%\]
PREINIT:
    SV *ssv;
CODE:
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv) {
        if (ckWARN(WARN_THREADS)) {
            Perl_warner(aTHX_ packWARN(WARN_THREADS),
                        "%" SVf " is not shared", ST(0));
        }
        XSRETURN_UNDEF;
    }
    ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
    /* XSRETURN(1); - implied */

void
share(SV *myref)
PROTOTYPE: \[$@\%\]
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    Perl_sharedsv_share(aTHX_ myref);
    ST(0) = sv_2mortal(newRV_inc(myref));
    /* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)
PROTOTYPE: \[$@\%\];\[$@\%\]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_wait can only be used on shared values");
ul = S_get_userlock(aTHX_ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (!SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_wait lock must be a shared value");
    ul = S_get_userlock(aTHX_ssv, 1);
}
if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: [$@%]$;[$@%]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
CODE:

if (! SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (! SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
* people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL
void
cond_signal(SV *myref)

PROTOTYPE: \[\%@$\]

PREINIT:
    SV *ssv;
    user_lock *ul;

CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        Perl_croak(aTHX_ "cond_signal can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "cond_signal() called on unlocked variable");
    }
    COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)

PROTOTYPE: \[\%@$\]

PREINIT:
    SV *ssv;
    user_lock *ul;

CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "cond_broadcast() called on unlocked variable");
    }
    COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)

Open Source Used In Cisco Identity Services Engine 3.2  49003
PROTOTYPE: $;$

PREINIT:
   HV* stash;
   SV *ssv;

CODE:
   if (items == 1) {
      stash = CopSTASH(PL_curcop);
   } else {
      SV* classname = ST(1);
      STRLEN len;
      char *ptr;

      if (classname &&
         ! SvGMAGICAL(classname) &&
         ! SvAMAGIC(classname) &&
         SvROK(classname))
      {
         Perl_croak(aTHX_ "Attempt to bless into a reference");
      }
      ptr = SvPV(classname, len);
      if (ckWARN(WARN_MISC) && len == 0) {
         Perl_warner(aTHX_ packWARN(WARN_MISC),
                     "Explicit blessing to '' (assuming package main)");
      }
      stash = gv_stashpvn(ptr, len, TRUE);
   }
   SvREFCNT_inc_void(myref);
   (void)sv_bless(myref, stash);
   ST(0) = sv_2mortal(myref);
   ssv = Perl_sharedsv_find(aTHX_ myref);
   if (ssv) {
      dTHXc;
      ENTER_LOCK;
      SHAREDCONTEXT;
      {
         SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
         (void)sv_bless(ssv, (HV*)fake_stash);
      }
      CALLERCONTEXT;
      LEAVE_LOCK;
   } /* XSRETURN(1); - implied */

#endif /* USE_ITHREADS */

BOOT:
   {
      ifdef USE_ITHREADS

Perl_sharedsv_init(aTHX);
#endif /* USE_ITHREADS */
}

Found in path(s):
* /opt/cola/permits/1175309447_1624358696.56/0/perl-threads-shared-1.58-2.el8-1.src.rpm-cosi-expand-archive-
  DBfdlmJz/threads-shared-1.58.tar.gz-cosi-expand-archive-KnUPoTDJ/threads-shared-1.58/shared.xs
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1.2131 golang-sql-civil 0.0.0-20190719163853-cb61b32ac6fe
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1.2132 joda-time 2.10.10

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1.2135 gopkg.in-yaml 2.4.0

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1.2136 python36 3.6.8-
2.module+el8.1.0+3334+5cb623d7

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A. HISTORY OF THE SOFTWARE

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

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

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

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tomb - support for clean goroutine termination in Go.

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/ cola/permits/1177341447_1625130037.73/0/spring-oxm-5-3-2-sources-jar/org/springframework/oxm/Marshaller.java
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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

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* 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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**1.2152 gogoprotobuf 1.3.2**

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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```python
import io, sys
from setuptools import setup

def main():

```
python_version = sys.version_info[:2]
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        '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()

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* /opt/cola/permits/1184181836_1628533468.66/0/python3-idna-2.10-1.el7.src.rpm-cosi-expand-archive-
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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

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:
Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
# Python 2
>>> idna.alabel(u"
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

As described in `RFC 5895`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
```


.. _`Unicode IDNA Compatibility Processing`: http://unicode.org/reports/tr46/
Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the "LATIN SMALL LETTER SHARP S" (ß) was converted into two "LATIN SMALL LETTER S" (ss), whereas in the current IDNA specification this conversion is not performed.

```python
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

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
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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1.2154 csh 6.20.00-12.el8

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*/

/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef __config
#define __config

/****************** System dependant compilation flags ****************/
/
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
*/
#undef POSIXJOBS

/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS	You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES	You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
((OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/******************** local defines *********************/

#endif /* _h_config */
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1.2156 armon-go-metrics 0.3.3
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1.2158 sxp-core 1.2.5-31

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1.2159 gridlist 0.1.0

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

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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goproperties - properties file decoder for Go

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

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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/ContextCustomizer.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/web/WebTestContextBootstrapper.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/junit4/SpringRunner.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/ContextCustomizerFactory.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/web/client/RequestMatcher.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/web/servlet/htmlunit/WebRequestMatcher.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/cache/ContextCacheUtils.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/web/servlet/ResultHandler.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/jdbc/SqlConfig.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/ActiveProfilesResolver.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/web/socket/MockServerContainerContextCustomizerFactory.java
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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/annotation/Commit.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/web/TestContextBootstrapper.java

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*/
/**
* Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
* to a single Object, see [KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for
* more details.
* @since 5.0.6
*/

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jar/org/springframework/test/jdbc/JdbcTestUtils.java
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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
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jar/org/springframework/test/context/support/DirtiesContextBeforeModesTestExecutionListener.java
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jar/org/springframework/test/web/servlet/htmlunit/MockMvcWebClientBuilder.java
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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
jar/org/springframework/test/web/servlet/htmlunit/webdriver/MockMvcHtmlUnitDriverBuilder.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
jar/org/springframework/test/context/MergedContextConfiguration.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
jar/org/springframework/test/web/servlet/htmlunit/MockMvcWebClientBuilder.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
jar/org/springframework/test/context/junit/jupiter/EnabledIfCondition.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
jar/org/springframework/test/web/reactive/server/ApplicationContextSpec.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-
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* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/web/GenericXmlWebContextLoader.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/junit4/statements/RunBeforeTestMethodCallbacks.java
* /opt/ws_local/PERMITS_SQL/1078632728_1597366367.81/0/spring-test-5-2-8-release-sources-jar/org/springframework/test/context/junit4/statements/SpringRepeat.java

1.2169 x-sys 0.0.0-20211117180635-dee7805ff2e1

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1.2179 golang-jwt 4.0.0
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// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
Links struct {
Next string `json:"next"
Previous string `json:"previous"
} `json:"links"
}
err := r.ExtractInto(&s)
if err != nil {
return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
Resources []Resource `json:"resources"
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should
submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](https://github.com/gophercloud/gophercloud/pull/584) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).
What to Include in a Pull Request  
-------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix  
2. Unit tests  
3. Acceptance tests  
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests  
-----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because
it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all
of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
--------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.
It's Never Personal

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

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don’t take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"

// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`

// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `
`
// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package testing

import {
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}
func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)
createOpts := resources.CreateOpts{
    Name: "resource two",
}

actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import (  
    "github.com/gophercloud/gophercloud"  
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request  
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.  
type ListOpts struct {
}
// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
    }
    return
}
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!
========================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing
==========================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't
want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call
If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package. Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool     `json:"admin_state_up"`
    Status       string   `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string   `json:"tenant_id"`
    Shared       bool     `json:"shared"`
}
```

to look like

```go
type Network struct {
    ID                    string   `json:"id"`
    Name                  string   `json:"name"`
    AdminStateUp          bool     `json:"admin_state_up"`
    Status                string   `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string   `json:"tenant_id"`
    Shared                bool     `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.
One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

**Code Hunting Tips**

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.2181 python3-pycparser 2.14-14.el8

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This is a list of people who have contributed to pycparser by supplying patches, opening issues, or generally helping out, before the project moved to Github.

For more recent contributions, check out the "Contributors" page of the pycparser Github project.

The list is sorted in increasing alphabetic order by first name.

* Andreas Klckner
* Andrew de los Reyes
* Benoit Pradelle
* Dov Feldstern
* Even Wiik Thomassen
* Greg Smith
* Jaroslav Franek
* Li Xuan Ji
* Mateusz Czaplinski
* Paolo Di Maio
* Rory Yorke
* Rubin
* Scott Tsai
* Sye van der Veen
* Thomas W. Barr
* Tomer Segal
* Weyllor

1.2182 typing 3.7.4.3-1.ph4
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver. 
-----------------------------------------------
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1.2189 glib 2.56.4-9.el8

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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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1.2190 httpcomponents-core 4.4.14

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Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
viewsسيدney's comments and follow-up about the cracklib license issue.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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=

Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> Sent: Monday, October 01, 2007 8:15 PM
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=2Dmike

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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
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I like GPL, I use it when I can, but I don't think that it's the correct
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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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
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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
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Attachments: Message as HTML
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yes. go for it. thanks++

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Re: [Cracklib-devel] cracklib license
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Attachments: Message as HTML
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Nathan Neulinger is the only one who can actually make said change ...

-mike

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

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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

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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>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
>
> The license for my code in the Cracklib distribution is henceforth GPL.

    Happy now? :-)

    -a

    ----------

    EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
    in released code until Nov 2009 - slow release cycle...)

    ----------

    Discussion thread from mailing list archive, with approval from everyone actively
    involved or holding original licensing rights included.

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Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 49710
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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 ESMTPO id l91Gxtpfr020623
    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 ESMTPO id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helol[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1lCeX-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: <1b1b3fd80710010908k11dac0afpf1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
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ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.2194 backport 3.23.0
1.2194.1 Available under license:
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1.2195 commons-pool 1.6

1.2195.1 Available under license:

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Version 2.0, January 2004
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"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
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"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
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# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#
# package.json license: format uses https://spdx.org/licenses/ identifiers, which
# are mostly compatible with
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/#license-specification

import os
import sys
import json
import re
import subprocess
import argparse
from glob import glob

debian_dir = os.path.join(os.path.dirname(__file__), 'debian')
template_file = os.path.join(debian_dir, 'copyright.template')

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    p.add_argument('node_modules', help='path to node_modules directory)
    return p.parse_args()

def template_licenses(template):
    """Return set of existing License: short names""

    ids = set()
    for l in template.splitlines():
        if l.startswith('License: '):
            ids.add(l.split(None, 1)[1][1].lower())
return ids

def module_license(moddir):
    
    # First check if package.json has a "license" field
    try:
        with open(os.path.join(moddir, 'package.json'), encoding='UTF-8') as f:
            l = json.load(f)['license']
            if l.startswith('(MIT OR '):
                return 'MIT'
            if l == 'MPL 2.0':
                # https://github.com/novnc/noVNC/pull/819
                return 'MPL-2.0'
            return l
    except (IOError, KeyError):
        pass

    # LICENSE*/COPYING/README
    if os.path.exists(os.path.join(moddir, 'MIT-LICENSE.txt')):
        return 'MIT'
    try:
        with open((glob(os.path.join(moddir, 'LICENSE*')) +
                   glob(os.path.join(moddir, 'COPYING')))[0]) as f:
            text = f.read()
        if 'Permission is hereby granted,' in text and 'THE SOFTWARE IS PROVIDED "AS IS"' in text:
            return 'MIT'
    except IndexError:
        pass

    raise SystemError('Could not determine license from %s % moddir)
if 'grunt.template.today' in l or 'copyright-mark' in l or '@font-face' in l or 'Binary file' in l:
    continue
if '<name of author>' in l:
    continue
l = l.replace('<copyright>', '').replace('</copyright>', '')
l = l.replace('&copy;', '(c)').replace('copyright = ', ')
l = re.sub('@license.*Copyright', '', l)
l = l.strip('t\n\n')
if not l.endswith('Inc. '):
    # avoids some duplicated lines which only differ in trailing dot
    l = l.strip('‘
')
if l.startswith('u”') or l.startswith('u" '):  # Python unicode prefix
    l = l[2:]
if 'Fixes #' in l:
    continue  # this is from a changelog
# some noise fine-tuning for specific packages
if mod == 'bootstrap' and ('https://github.com' in l or l == 'Copyright 2015'):
    continue
if mod == 'patternfly':
    l = re.sub(' and licensed.*', '', l)
copyrights.add(' ' + l)  # space prefix for debian/copyright RFC822 format
except subprocess.CalledProcessError:
    pass
if not copyrights:
    # fall back to package.json's author
    try:
        with open(os.path.join(moddir, 'package.json')) as f:
            author = json.load(f)['author']

            # `author` can be either a string or a dict
            # https://flaviocopes.com/package-json/#author
            if isinstance(author, dict):
                author = author['name']
        assert isinstance(author, str)
copyrights.add(' ' + author)
    except (IOError, KeyError):
        pass
if not copyrights:
    raise SystemError('Did not find any copyrights in %s' % moddir)
return copyrights

#  # main
#
args = parse_args()

with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)
paragraphs = []
for module in sorted(os.listdir(args.node_modules)):
    if module == 'README':
        continue
    moddir = os.path.join(args.node_modules, module)
    license = module_license(moddir)
    if license.lower() not in license_ids:
        raise KeyError('%s has license %s which is not in %s' % (module, license, template_file))
    copyrights = module_copyright(moddir)
    paragraphs.append('''Files: node_modules/%s/*
Copyright:%s
License: %s''' % (module, '
'.join(sorted(copyrights)), license))

# force UTF-8 output, even when running in C locale
for l in template.splitlines():
    if '#NPM' in l:
        sys.stdout.buffer.write(('
').join(paragraphs).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(l.encode('UTF-8'))
        sys.stdout.buffer.write(b'
')

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## uuid

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnetd/login.3
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/telnet.1
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* from: @(#)defs.h 5.10 (Berkeley) 3/1/91
*$Id: defs.h,v 1.7 1999/08/02 03:14:03 dholland Exp$
*/

Found in path(s):
*/opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnetd/defs.h

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* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/authenc.cc

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*@(#)externs.h8.3 (Berkeley) 5/30/95
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* From: @(#)conf.c 8.243 (Berkeley) 11/20/95
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from: @(#)ring.h 8.1 (Berkeley) 6/6/93
/

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/opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/ring.h

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  NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/terminal.cc
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
  NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/commands.cc
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
  NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/sys_bsd.cc
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
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*$OpenBSD: auth.h,v 1.3 1998/03/12 04:48:46 art Exp $
*$NetBSD: auth.h,v 1.5 1996/02/24 01:15:18 jtk Exp $
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* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/network.c
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/ring.c
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/tn3270.c

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$Id: fdset.h,v 1.1 1996/07/16 05:17:22 dholland Exp$
*/

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   /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/fdset.h

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/ opt/ cola/ permits/ 1358904097_ 1657447279. 2989023/ 0/ telnet- 0.17- 76. el8. src. rpm- cosi- expand- archive-
NKQbmITV/ netKit- telnet- 0.17. tar. gz- cosi- expand- archive- 2eeJcvJg/ netkit- telnet- 0.17/ telnet/ utilities. cc
/ opt/ cola/ permits/ 1358904097_ 1657447279. 2989023/ 0/ telnet- 0.17- 76. el8. src. rpm- cosi- expand- archive-
NKQbmITV/ netKit- telnet- 0.17. tar. gz- cosi- expand- archive- 2eeJcvJg/ netkit- telnet- 0.17/ telnet/ tn3270. cc
/ opt/ cola/ permits/ 1358904097_ 1657447279. 2989023/ 0/ telnet- 0.17- 76. el8. src. rpm- cosi- expand- archive-
NKQbmITV/ netKit- telnet- 0.17. tar. gz- cosi- expand- archive- 2eeJcvJg/ netkit- telnet- 0.17/ telnet/ ring. cc
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*$OpenBSD: misc.h,v 1.2 1996/03/19 23:15:56 niklas Exp $
*$NetBSD: misc.h,v 1.4 1996/02/24 01:15:27 jtk Exp $
*/

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* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
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* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/telnet/authenc.c
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/libtelnet/genget.c
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/libtelnet/getent.c
* /opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/libtelnet/misc.c

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*$Id: telnetd.h,v 1.2 1999/03/27 07:46:21 dholland Exp $
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   NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/array.h
   */opt/cola/permits/1358904097_1657447279.2989023/0/telnet-0.17-76.el8.src.rpm-cosi-expand-archive-
   NKQbmITV/netkit-telnet-0.17.tar.gz-cosi-expand-archive-2eeJcvJg/netkit-telnet-0.17/telnet/ptrarray.h
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*$Id: ext.h,v 1.9 1999/12/12 14:59:44 d holland Exp$
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  NKQbmITV/telnet-client.tar.gz-cosi-expand-archive-Iskbmezy/libtelnet/encrypt.c
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* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xenc11-schema.xsd
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$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor $

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* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xmldsig-core-schema.xsd

1.2217 libsmartcols 2.32.1-22.el8

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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```sh
go get go.uber.org/tools/update-license
```

## Usage

```sh
type update-license go_files...
```

## Further Work

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tomb - support for clean goroutine termination in Go.

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package api

import (  
"io/ioutil"  
"strings"  
"time"
)
type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`

    // List of features enabled by the license
    Features []string `json:"features"`
}

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query(`/v1/operator/license`, &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil
}

Data model artifacts for Prometheus.
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import (  
"encoding/json"
  
"github.com/go-openapi/swag"
 )

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
LicenseProps
VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  if err != nil {
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)
  if err != nil {
    return nil, err
  }
  return swag.ConcatJSON(b1, b2), nil
}

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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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

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THE BASIC LIBRARY FUNCTIONS

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/UnsafeAllocator.java

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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonScope.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSyntaxException.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonElement.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/Serializer.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/DefaultDateTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/Gson.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/LinkedTreeMap.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/LinkedHashTreeMap.java
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* /opt/cola/permits/1000738091_1646171488.9/gson-2-8-5-sources-jar/com/google/gson/Annotations/JsonAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/gson-2-8-5-sources-jar/com/google/gson/FieldAttributes.java
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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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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```
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 */
```
Found in path(s):
* /opt/cola/permits/1180062171_1626291537.6/0/bootstrap-dialog-js-1-zip/bootstrap-dialog.js

1.2235 systemd 245.4-4ubuntu3.14

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1.2239 jackson-core 2.10.1

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1.2245 spring-framework 5.2.8.RELEASE

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.2264 go-yaml 2.2.8

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1.2266 powermock-core 1.7.0

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ASM: a very small and fast Java bytecode manipulation framework

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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Additional -

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File: PSReadLine
https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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SNMP4J - SnmpRequest.java

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Tests included here are based on build output generated by the six-speed benchmark suite.

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

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

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

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1.2312 python3-iniparse 0.4-31.el8

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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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<th>Owner</th>
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Additional -

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File: PSReadLine

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https://github.com/lzybkr/PSReadLine

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----------------------------------------------
File: HashTables from ConvertFrom-json
----------------------------------------------

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
-------------------------------------------------

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

1.2319 python3-ethtool 0.14-3.el8

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1.2322 logstash-output-pipe 3.0.6

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1.2323 libedit 3.1 23.20170329cvs.el8

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1.2324 blackfriday 2.0.1

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1.2325  x-sync  0.0.0-20201207232520-09787c993a3a

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1.2326  boost-system  1.66.0-7.el8

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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

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The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
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Thomas Funke (thf@zelator.in-berlin.de(?)) and
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Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
William Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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The header `<boost/mp11/mp11.hpp>` defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

--- end ---

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[mpp]

1.2327 libsss-idmap 2.2.3-20.el8

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// This file was generated by gir (https://github.com/gtk-rs/gir)
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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

class NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn release_async_future(
        &self,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;
}
fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;
}

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(&self, cancellable: Option<&P>,
        callback: Q,
    ) {
        let user_data: Box_<Q> = Box_::new(callback);
        unsafe extern "C" fn acquire_async_trampoline<
            Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        >(
            _source_object: *mut gobject_sys::GObject,
            res: *mut gio_sys::GAsyncResult,
            user_data: glib_sys::gpointer,
        ) { 
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            };
            let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
            callback(result);
        }
let callback = acquire_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_acquire_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box::into_raw(user_data) as *mut _,
    );
}
}

fn acquire_async_future(&self, ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    })))
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}
fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref().to_glib_none().0),
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box<Q> = Box::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        _source_object: *mut gio::GObject,
        res: *mut gio::GAsyncResult,
        user_data: glib::GPointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box<Q> = Box::from_raw(user_data as *mut _);
    }
}
callback(result);

let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box_::into_raw(user_data) as *mut _,
    );
}

fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    })))
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
let f: Box_<F> = Box_::new(f);
connect_raw(
    self.as_ptr() as *mut _,
    b"notify::allowed\0".as_ptr() as *const _,
    Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
    Box_::into_raw(f),
)
fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box<_F> = Box::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-acquire\0".as_ptr() as *const _,
        Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
        Box::_::into_raw(f),
    )
}
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
) where
    P: IsA<Permission>,
{
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
    let f: Box<_F> = Box::new(f);
    connect_raw(
        self.as_ptr() as *mut _,
        b"notify::can-release\0".as_ptr() as *const _,
        Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
        Box::_::into_raw(f),
    )
}
}

impl fmt::Display for Permission {
fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
    write!(f, "Permission")
}
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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
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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reproducing the executable from it. However, as a special exception,
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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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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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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
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: HashTables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.2344 jctools-core 3.1.0

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Open Source Used In Cisco Identity Services Engine 3.2

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

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<java.test.version>1.8</java.test.version>

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</project>

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1.2345 ietf-inet-types 2010.09.24.7

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1.2346 opencontainers-runtime-spec 1.0.3-0.20200728170252-4d89ac9fbff6

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1.2347 system-security-principal-windows

5.0.0.0

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File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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PackageManagement
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---
abstract: 'Structured version objects'
author:
  - 'John Peacock <jpeacock@cpan.org>'
built_requires:
  ExtUtils::MakeMaker: '0'
  File::Temp: '0.13'
  Test::More: '0.45'
  parent: '0.221'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: version
no_index:
directory:
  - t
  - inc
package:
  - charstar
requires:
  perl: '5.006002'
resources:
  bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=version
  repository: git://github.com/JohnPeacock/version.pm.git
  version: '0.9924'
  x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
*/opt/cola/permits/1175309495_1624358638.49/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-uSrtpzIq/version-0.9924.tar.gz-cosi-expand-archive-10aLngwi/version-0.9924/META.yml
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*/opt/cola/permits/1175309495_1624358638.49/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-uSrtpzIq/perl-version.spec
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/*

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.012000.

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.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS
perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help       show short help
--version    show version
--patch=file  write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version  provide compatibility with Perl version
--cplusplus  accept C++ comments

--quiet      don't output anything except fatal errors
--nodiag     don't show diagnostics
--nohints    don't show hints
--nochanges  don't suggest changes
--nofilter   don't filter input files

--strip      strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<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 F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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. Warnings will still be displayed.

=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 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=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 or warnings 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.
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 F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables 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>rs in your source code before the inclusion of F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#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.
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 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 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.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

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) 2004-2010, 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;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 } 

my $VERSION = 3.19_02;

my %opt = (
  quiet => 0,
  diag  => 1,
  hints => 1,
  changes => 1,
  cplusplus => 0,
  filter  => 1,
  strip   => 0,
  version => 0,
);

my($ppport) = $0 =~ /\[(\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '[ \t\]'; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*\*/';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw( # help quiet diag! filter! hints! changes! cplusplus strip version
    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.
    
} if ($opt{version}) {
    print "This is $0 $VERSION
    
    exit 0;
    
} usage() if $opt{help};
strip() if $opt{strip};

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;
    } 

my %API = map { /^\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
AvFILL||
CLASS||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 52171
Open Source Used In Cisco Identity Services Engine 3.2  52174

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PAD_SETSV
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PERLIO_FUNCS_DECL
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<td>newSV_type</td>
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<td>newSVuv</td>
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sv_destroyable[5.010000]
sv_does[5.009004]
sv_dump
sv_dup_inc_multiple
sv_dup
sv_eq
sv_exp_grow
sv_force_normal_flags[5.007001]
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sv_free2
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sv_free
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sv_grow
sv_incmp
sv_inc
sv_insert_flags[5.010001]
sv_insert
sv_isa
sv_isobject
sv_iv[5.005000]
sv_kill_backrefs
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sv_len
sv_magic_portable[5.011005]
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sv_magic
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sv_pos_b2u_midway
sv_pos_b2u[5.006000]
sv_pos_u2b_cached
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sv_pos_u2b_midway
sv_pos_u2b[5.006000]
sv_pvbyte_force[5.006000]
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sv_setpv
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sys_intern_init
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to_byte_substr

to_uni_fold[5.007003]
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to_uni_title[5.007003]
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to_uni_upper[5.007003]
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unshare_hek_or_pvn

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update_debugger_info

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usage

utf16_textfilter

utf16_to_utf8_reversed[5.006001]
utf16_to_utf8[5.006001]
utf8_distance[5.006000]
utf8_hop[5.006000]
utf8_length[5.007001]
utf8_mg_pos_cache_update

utf8_to_bytes[5.006001]
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

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if ($define) {
    if ($define->[1] =~ /
\$/) {
        $define->[1] .= $_;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
} else {
    $define = \[$1, $2\] if m\(^s*\#s*define\s+\(\w+\)?\(\([^)]*\)\)?\s+(.*);\)
}

if ($function) {
    if (/^\)/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
} else {
    $function = \[$1, ''\] if m\(^DPPP_\(my_(\w+)\);\)
}

$replace     = $1 if m\(^s*srcs\sls+Replace:\s+\(\d+\)\s+srcs\s+\(.*\);\)
$replace{2} = $1 if $replace and m\(^s*\#s*define\s+\(\w+\)?\(\([^)]*\)\)?\s+(\w+);\)
$replace{2} = $1 if m\(^srcs\s+Replace\s+(\w+);\)
$replace{1} = $2 if m\(^s*\s+srcs\s+Replace\s+(\d+);\)
    if (m\(^s*srcs\s+\(\w+\)?\(\w+\)?\s+depends\s+\(\w+\);\)
        my @deps = map { s/\s+/ /g; S_ } split \/, $3;
        my $d;
        for $d (map { s/\s+/ /g; S_ } split \/, $1) {
            push @{$depends{$d}}, @deps;
        }
    }

$need{$1} = 1 if m\(^#if\s+defined\(\$if\s+\(\w+\)?\(\w+\);\)
    for (values %depends) {
        my %s;
$_ = [sort grep !$s{$_}++, @$_];

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $smatch = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{\'api-info\'}\E$/";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$smatch/;
        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 "Depends on: ", join(\', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
            print "\nHints: $f\"
            if exists $hints{$f};
            print "\n\nWARNING: $f\"
            if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching $opt{\'api-info\'}.\n";
    print \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};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '['.join(', ', @flags).']': ";
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file\n" }
        } else { 
            my @new = grep { -f } glob $_
            or warn "$_ does not exist\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
    else { 
        my @new = grep { -f } glob $_
        or warn "$_ does not exist\n";
        push @files, grep { !$seen{$_}++ } @new;
    }
} 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 $xsc{$_} or 
        /\Q$ppport\E$/i || !/($srcext)/i;
        push @ [ $out ? \@out : \@in ], $_;
    }
    if (@ARGV && @out) { 
        warning("Skipping the following files (use --nofilter to avoid this):
| ", join "| ", @out);
    }
    @files = @in;
}

die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);

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if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$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 @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;

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for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{(Perl_$func\(.*?aTHX_.*)(?!aTHX_\?)(?!\^[a-zA-Z0-9]*))
                              \$1 . (\$2 eq \') ? 'aTHX_' : 'aTHX_.}\$2 \ge);)
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\(.*?aTHX_.*)(?!\^[a-zA-Z0-9]*))
                              \$1(}\$func$1(\g);)
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
            }
        } else {
            diag("Uses $func");
        }
        $warnings += hint($func);
    }
}
unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
         format_version($API{$func}{todo}), ", even with '$ppport'un";
    $warnings++;
  }
}

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') {
      $message = "No need to define NEED$_$func_GLOBAL when only used in this file";
    }
  }
  if ($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'");
  $pp .= qq(#include "$ppport\n")
}

if ($pp) {
  $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)/$1$pp/m)
    || ($c =~ s/^/$pp/);
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/\E*$\F/\F$/m);
  }
}

# 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} += $c =~ s/\E*$rcce$rcce/\E*$rcce/$ccom[$ix] $cce/;
  } else {


if ($cppc) {
    my $s = $cppc != 1 ? 's' : ''; 
    warning("Uses $cppc C++ style comment$s, which is not portable"); 
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn");

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") {
                info("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: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            } else {
                mydiff("PATCH", $filename, $c);
                } else {
                    fallback:

info("Suggested changes:");
mydiff(\*STDOUT, $filename, $c);
}
}
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 try_use { eval "use @_:"; return $@ eq "" }

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 try_use(\_::\_Diff)) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
--- $file
+++ $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) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

}
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 rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = [%{$seen||{}}];
return () if $seen->{$func}++;
my %s;
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$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'un";
    }

    $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'un";
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/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 "invalid version '$ver'un";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
$s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%.%.%.", $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;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++)
    {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++)
    {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
        print "   --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($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;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 52228


my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]*
]| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '([^'\\]*(?:\\.[^'\\]*)*)' )
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1175309495_1624358638.49/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-uSrtpzIq/version-0.9924.tar.gz-cosi-expand-archive-10aLngwi/version-0.9924/vutil/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME

version::Internals - Perl extension for Version Objects

=head1 DESCRIPTION

Overloaded version objects for all modern versions of Perl. This documents the internal data representation and underlying code for version.pm. See F<version.pod> for daily usage. This document is only useful for users interested in the gory details.

=head1 WHAT IS A VERSION?

For the purposes of this module, a version "number" is a sequence of positive integer values separated by one or more decimal points and optionally a single underscore. This corresponds to what Perl itself uses for a version, as well as extending the "version as number" that is discussed in the various editions of the Camel book.

There are actually two distinct kinds of version objects:
=item Decimal versions

Any version which "looks like a number", see L<Decimal Versions>. This also includes versions with a single decimal point and a single embedded underscore, see L<Alpha Versions>, even though these must be quoted to preserve the underscore formatting.

=back

Both of these methods will produce similar version objects, in that the default stringification will yield the version L<Normal Form> only if required:

$v  = version->new(1.002);     # 1.002, but compares like 1.2.0
$v  = version->new(1.002003);  # 1.002003
$v2 = version->new("v1.2.3"); # v1.2.3

In specific, version numbers initialized as L<Decimal Versions> will stringify as they were originally created (i.e. the same string that was passed to C<new()>). Version numbers initialized as L<Dotted-Decimal Versions> will be stringified as L<Normal Form>.

=head2 Decimal Versions

These correspond to historical versions of Perl itself prior to 5.6.0, as well as all other modules which follow the Camel rules for the $VERSION scalar. A Decimal version is initialized with what looks like a floating point number. Leading zeros B<are> significant and trailing zeros are implied so that a minimum of three places is maintained between subversions. What this means is that any subversion (digits to the right of the decimal place) that contains less than three digits will have trailing zeros added to make up the difference, but only for purposes of comparison with other version objects. For example:

<table>
<thead>
<tr>
<th># Prints</th>
<th>Equivalent to</th>
</tr>
</thead>
<tbody>
<tr>
<td>$v = version-&gt;new( 1.2);   # 1.2</td>
<td>v1.200.0</td>
</tr>
<tr>
<td>$v = version-&gt;new( 1.02);  # 1.02</td>
<td>v1.20.0</td>
</tr>
</tbody>
</table>
$v = version->new( 1.002);  # 1.002  v1.2.0
$v = version->new( 1.0023);  # 1.0023  v1.2.300
$v = version->new( 1.00203);  # 1.00203  v1.2.30
$v = version->new( 1.002003);  # 1.002003  v1.2.3

All of the preceding examples are true whether or not the input value is quoted. The important feature is that the input value contains only a single decimal. See also L<Alpha Versions>.

IMPORTANT NOTE: As shown above, if your Decimal version contains more than 3 significant digits after the decimal place, it will be split on each multiple of 3, so 1.0003 is equivalent to v1.0.300, due to the need to remain compatible with Perl's own 5.005_03 == 5.5.30 interpretation. Any trailing zeros are ignored for mathematical comparison purposes.

=head2 Dotted-Decimal Versions

These are the newest form of versions, and correspond to Perl's own version style beginning with 5.6.0. Starting with Perl 5.10.0, and most likely Perl 6, this is likely to be the preferred form. This method normally requires that the input parameter be quoted, although Perl's after 5.8.1 can use v-strings as a special form of quoting, but this is highly discouraged.

Unlike L<Decimal Versions>, Dotted-Decimal Versions have more than a single decimal point, e.g.:

    # Prints
    $v = version->new( "v1.200");  # v1.200.0
    $v = version->new("v1.20.0");  # v1.20.0
    $v = qv("v1.2.3");  # v1.2.3
    $v = qv("1.2.3");  # v1.2.3
    $v = qv("1.20");  # v1.20.0

In general, Dotted-Decimal Versions permit the greatest amount of freedom to specify a version, whereas Decimal Versions enforce a certain uniformity.

Just like L<Decimal Versions>, Dotted-Decimal Versions can be used as L<Alpha Versions>.

=head2 Alpha Versions

For module authors using CPAN, the convention has been to note unstable releases with an underscore in the version string. (See L<CPAN>.) version.pm follows this convention and alpha releases will test as being newer than the more recent stable release, and less than the next stable release. Only the last element may be separated by an underscore:
# Declaring
use version 0.77; our $VERSION = version->declare("v1.2_3");

# Parsing
$V1 = version->parse("v1.2_3");
$V1 = version->parse("1.002_003");

Note that you B<must> quote the version when writing an alpha Decimal version. The stringified form of Decimal versions will always be the same string that was used to initialize the version object.

=head2 Regular Expressions for Version Parsing

A formalized definition of the legal forms for version strings is included in the C<version::regex> class. Primitives are included for common elements, although they are scoped to the file so they are useful for reference purposes only. There are two publicly accessible scalars that can be used in other code (not exported):

=over 4

=item C<$version::LAX>

This regexp covers all of the legal forms allowed under the current version string parser. This is not to say that all of these forms are recommended, and some of them can only be used when quoted.

For dotted decimals:

v1.2
1.2345.6
v1.23_4

The leading 'v' is optional if two or more decimals appear. If only a single decimal is included, then the leading 'v' is required to trigger the dotted-decimal parsing. A leading zero is permitted, though not recommended except when quoted, because of the risk that Perl will treat the number as octal. A trailing underscore plus one or more digits denotes an alpha or development release (and must be quoted to be parsed properly).

For decimal versions:

1
1.2345
1.2345_01
an integer portion, an optional decimal point, and optionally one or more digits to the right of the decimal are all required. A trailing underscore is permitted and a leading zero is permitted. Just like the lax dotted-decimal version, quoting the values is required for alpha/development forms to be parsed correctly.

=item C<$version::STRICT>

This regexp covers a much more limited set of formats and constitutes the best practices for initializing version objects. Whether you choose to employ decimal or dotted-decimal for is a personal preference however.

=over 4

=item v1.234.5

For dotted-decimal versions, a leading 'v' is required, with three or more sub-versions of no more than three digits. A leading 0 (zero) before the first sub-version (in the above example, '1') is also prohibited.

=item 2.3456

For decimal versions, an integer portion (no leading 0), a decimal point, and one or more digits to the right of the decimal are all required.

=back

=back

Both of the provided scalars are already compiled as regular expressions and do not contain either anchors or implicit groupings, so they can be included in your own regular expressions freely. For example, consider the following code:

($pkg, $ver) =~ /
^[ \t]*
use [ \t]+($PKGNAME)
(?:[ \t]+($version::STRICT))?
[ \t]*;
/x;

This would match a line of the form:

use Foo::Bar::Baz v1.2.3;# legal only in Perl 5.8.1+

where C<$PKGNAME> is another regular expression that defines the legal forms for package names.
IMPLEMENTATION DETAILS

Equivalence between Decimal and Dotted-Decimal Versions

When Perl 5.6.0 was released, the decision was made to provide a transformation between the old-style decimal versions and new-style dotted-decimal versions:

5.6.0    == 5.006000
5.005_04 == 5.5.40

The floating point number is taken and split first on the single decimal place, then each group of three digits to the right of the decimal makes up the next digit, and so on until the number of significant digits is exhausted, plus enough trailing zeros to reach the next multiple of three.

This was the method that version.pm adopted as well. Some examples may be helpful:

<table>
<thead>
<tr>
<th>equivalent</th>
<th>zero-padded</th>
<th>dotted-decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>decimal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>1.2</td>
<td>1.200</td>
<td>v1.200.0</td>
</tr>
<tr>
<td>1.02</td>
<td>1.020</td>
<td>v1.20.0</td>
</tr>
<tr>
<td>1.002</td>
<td>1.002</td>
<td>v1.2.0</td>
</tr>
<tr>
<td>1.0023</td>
<td>1.002300</td>
<td>v1.2.300</td>
</tr>
<tr>
<td>1.00203</td>
<td>1.002030</td>
<td>v1.2.30</td>
</tr>
<tr>
<td>1.002003</td>
<td>1.002003</td>
<td>v1.2.3</td>
</tr>
</tbody>
</table>

Quoting Rules

Because of the nature of the Perl parsing and tokenizing routines, certain initialization values must be quoted in order to correctly parse as the intended version, especially when using the declare or L</qv()> methods. While you do not have to quote decimal numbers when creating version objects, it is always safe to quote all initial values when using version.pm methods, as this will ensure that what you type is what is used.

Additionally, if you quote your initializer, then the quoted value that goes \texttt{in} will be exactly what comes \texttt{out} when your SVERSION is printed (stringified). If you do not quote your value, Perl's normal numeric handling comes into play and you may not get back what you were expecting.

If you use a mathematic formula that resolves to a floating point number, you are dependent on Perl's conversion routines to yield the version you expect. You are pretty safe by dividing by a power of 10, for example,
but other operations are not likely to be what you intend. For example:

```perl
$VERSION = version->new((qw$Revision: 1.4)[1]/10);
print $VERSION;      # yields 0.14
$V2 = version->new(100/9);  # Integer overflow in decimal number
print $V2;           # yields something like 11.111.111.100
```

Perl 5.8.1 and beyond are able to automatically quote v-strings but that is not possible in earlier versions of Perl. In other words:

```perl
$version = version->new("v2.5.4");      # legal in all versions of Perl
$newvers = version->new(v2.5.4);      # legal only in Perl >= 5.8.1
```

=head2 What about v-strings?

There are two ways to enter v-strings: a bare number with two or more decimal points, or a bare number with one or more decimal points and a leading 'v' character (also bare). For example:

```perl
$vs1 = 1.2.3; # encoded as \1\2\3
$vs2 = v1.2;  # encoded as \1\2
```

However, the use of bare v-strings to initialize version objects is B<strongly> discouraged in all circumstances. Also, bare v-strings are not completely supported in any version of Perl prior to 5.8.1.

If you insist on using bare v-strings with Perl > 5.6.0, be aware of the following limitations:

1) For Perl releases 5.6.0 through 5.8.0, the v-string code merely guesses, based on some characteristics of v-strings. You B<must> use a three part version, e.g. 1.2.3 or v1.2.3 in order for this heuristic to be successful.

2) For Perl releases 5.8.1 and later, v-strings have changed in the Perl core to be magical, which means that the version.pm code can automatically determine whether the v-string encoding was used.

3) In all cases, a version created using v-strings will have a stringified form that has a leading 'v' character, for the simple reason that sometimes it is impossible to tell whether one was present initially.

=head2 Version Object Internals

version.pm provides an overloaded version object that is designed to both encapsulate the author's intended $VERSION assignment as well as make it completely natural to use those objects as if they were numbers (e.g. for comparisons). To do this, a version object contains both the original
representation as typed by the author, as well as a parsed representation
to ease comparisons. Version objects employ L< overload> methods to
simplify code that needs to compare, print, etc the objects.

The internal structure of version objects is a blessed hash with several
components:

bless( {
  'original' => 'v1.2.3_4',
  'alpha' => 1,
  'qv' => 1,
  'version' => [1, 2, 3, 4]
}, 'version' );

=item original

A faithful representation of the value used to initialize this version
object. The only time this will not be precisely the same characters
that exist in the source file is if a short dotted-decimal version like
v1.2 was used (in which case it will contain 'v1.2'). This form is
B<STRONGLY> discouraged, in that it will confuse you and your users.

=item qv

A boolean that denotes whether this is a decimal or dotted-decimal version.
See L<version/is_qv()>.

=item alpha

A boolean that denotes whether this is an alpha version. NOTE: that the
underscore can only appear in the last position. See L<version/is_alpha()>.

=item version

An array of non-negative integers that is used for comparison purposes with
other version objects.

=back

=head2 Replacement UNIVERSAL::VERSION
In addition to the version objects, this module also replaces the core core
UNIVERSAL::VERSION function with one that uses version objects for its comparisons. The return from this operator is always the stringified form as a simple scalar (i.e. not an object), but the warning message generated includes either the stringified form or the normal form, depending on how it was called.

For example:

```perl
package Foo;
$VERSION = 1.2;

package Bar;
$VERSION = "v1.3.5";  # works with all Perl's (since it is quoted)

package main;
use version;

print $Foo::VERSION;  # prints 1.2
print $Bar::VERSION;  # prints 1.003005

eval "use foo 10";
print $@;  # prints "foo version 10 required..."

eval "use foo 1.3.5;  # work in Perl 5.6.1 or better
print $@;  # prints "foo version 1.3.5 required..."

eval "use bar 1.3.6";
print $@;  # prints "bar version 1.3.6 required..."

eval "use bar 1.004";  # note Decimal version
print $@;  # prints "bar version 1.004 required..."
```

IMPORTANT NOTE: This may mean that code which searches for a specific string (to determine whether a given module is available) may need to be changed. It is always better to use the built-in comparison implicit in C<use> or C<require>, rather than manually poking at C<< class->VERSION >> and then doing a comparison yourself.

The replacement UNIVERSAL::VERSION, when used as a function, like this:

```perl
print $module->VERSION;
```

will also exclusively return the stringified form. See L</Stringification> for more details.
As much as possible, the version.pm module remains compatible with all current code. However, if your module is using a module that has defined C<$VERSION> using the version class, there are a couple of things to be aware of. For purposes of discussion, we will assume that we have the following module installed:

```perl
package Example;
use version; $VERSION = qv('1.2.2');
...module code here...
1;
```

=item Decimal versions always work

Code of the form:

```perl
use Example 1.002003;
```

will always work correctly. The C<use> will perform an automatic C<$VERSION> comparison using the floating point number given as the first term after the module name (e.g. above 1.002.003). In this case, the installed module is too old for the requested line, so you would see an error like:

Example version 1.002003 (v1.2.3) required--this is only version 1.002002 (v1.2.2)...

=item Dotted-Decimal version work sometimes

With Perl >= 5.6.2, you can also use a line like this:

```perl
use Example 1.2.3;
```

and it will again work (i.e. give the error message as above), even with releases of Perl which do not normally support v-strings (see L<What about v-strings?> above). This has to do with that fact that C<use> only checks to see if the second term looks like a number and passes that to the replacement L<UNIVERSAL::VERSION[UNIVERSAL/VERSION]>.

This is not true in Perl 5.005_04, however, so you are B<strongly encouraged> to always use a Decimal version in your code, even for those versions of Perl which support the Dotted-Decimal version.

=back

=head2 Object Methods
Like many OO interfaces, the new() method is used to initialize version objects. If two arguments are passed to C<new()>, the B<second> one will be used as if it were prefixed with "v". This is to support historical use of the C<qw> operator with the CVS variable $Revision, which is automatically incremented by CVS every time the file is committed to the repository.

In order to facilitate this feature, the following code can be employed:

$VERSION = version->new(qw$Revision: 2.7 $);

and the version object will be created as if the following code were used:

$VERSION = version->new("v2.7");

In other words, the version will be automatically parsed out of the string, and it will be quoted to preserve the meaning CVS normally carries for versions. The CVS $Revision$ increments differently from Decimal versions (i.e. 1.10 follows 1.9), so it must be handled as if it were a Dotted-Decimal Version.

A new version object can be created as a copy of an existing version object, either as a class method:

$v1 = version->new(12.3);
$v2 = version->new($v1);

or as an object method:

$v1 = version->new(12.3);
$v2 = $v1->new(12.3);

and in each case, $v1 and $v2 will be identical. NOTE: if you create a new object using an existing object like this:

$v2 = $v1->new();

the new object B<will not> be a clone of the existing object. In the example case, $v2 will be an empty object of the same type as $v1.
An alternate way to create a new version object is through the exported `qv()` sub. This is not strictly like other q? operators (like `qq`, `qw`), in that the only delimiters supported are parentheses (or spaces). It is the best way to initialize a short version without triggering the floating point interpretation. For example:

```perl
$v1 = qv(1.2);       # v1.2.0
$v2 = qv("1.2");    # also v1.2.0
```

As you can see, either a bare number or a quoted string can usually be used interchangeably, except in the case of a trailing zero, which must be quoted to be converted properly. For this reason, it is strongly recommended that all initializers to `qv()` be quoted strings instead of bare numbers.

To prevent the `qv()` function from being exported to the caller's namespace, either use `version` with a null parameter:

```perl
use version ();
```

or just require `version`, like this:

```perl
require version;
```

Both methods will prevent the `import()` method from firing and exporting the `qv()` sub.

For the subsequent examples, the following three objects will be used:

```perl
$ver   = version->new("1.2.3.4"); # see "Quoting Rules"
$alpha = version->new("1.2.3_4"); # see "Alpha Versions"
$nver  = version->new(1.002);     # see "Decimal Versions"
```

**Normal Form**

For any version object which is initialized with multiple decimal places (either quoted or if possible v-string), or initialized using the `qv()` operator, the stringified representation is returned in a normalized or reduced form (no extraneous zeros), and with a leading 'v':

```perl
print $ver->normal;   # prints as v1.2.3.4
```
print $ver->stringify;  # ditto
print $ver;            # ditto
print $nver->normal;   # prints as v1.2.0
print $nver->stringify;  # prints as 1.002,
                         # see "Stringification"

In order to preserve the meaning of the processed version, the
normalized representation will always contain at least three sub terms.
In other words, the following is guaranteed to always be true:

my $newver = version->new($ver->stringify);
if ($newver eq $ver ) # always true
    {...}

=back

=over 4

=item Numification

Although all mathematical operations on version objects are forbidden
by default, it is possible to retrieve a number which corresponds
to the version object through the use of the $obj->numify
method. For formatting purposes, when displaying a number which
corresponds a version object, all sub versions are assumed to have
three decimal places. So for example:

print $ver->numify;     # prints 1.002003004
print $nver->numify;    # prints 1.002

Unlike the stringification operator, there is never any need to append
trailing zeros to preserve the correct version value.

=back

=over 4

=item Stringification

The default stringification for version objects returns exactly the same
string as was used to create it, whether you used C<new()> or C<qv()>,
with one exception. The sole exception is if the object was created using
C<qv()> and the initializer did not have two decimal places or a leading
'v' (both optional), then the stringified form will have a leading 'v'
prepended, in order to support round-trip processing.

For example:
<table>
<thead>
<tr>
<th>Initialized as</th>
<th>Stringifies to</th>
</tr>
</thead>
<tbody>
<tr>
<td>version-&gt;new(&quot;1.2&quot;)</td>
<td>1.2</td>
</tr>
<tr>
<td>version-&gt;new(&quot;v1.2&quot;)</td>
<td>v1.2</td>
</tr>
<tr>
<td>qv(&quot;1.2.3&quot;)</td>
<td>1.2.3</td>
</tr>
<tr>
<td>qv(&quot;v1.3.5&quot;)</td>
<td>v1.3.5</td>
</tr>
<tr>
<td>qv(&quot;1.2&quot;)</td>
<td>v1.2</td>
</tr>
</tbody>
</table>

See also L<UNIVERSAL::VERSION|UNIVERSAL/VERSION>, as this also returns the stringified form when used as a class method.

IMPORTANT NOTE: There is one exceptional cases shown in the above table where the "initializer" is not stringwise equivalent to the stringified representation. If you use the C<qv>() operator on a version without a leading 'v' B<and> with only a single decimal place, the stringified output will have a leading 'v', to preserve the sense. See the L</qv()> operator for more details.

IMPORTANT NOTE 2: Attempting to bypass the normal stringification rules by manually applying L<numify()|version/numify()> and L<normal()|version/normal()> will sometimes yield surprising results:

```
print version->new(version->new("v1.0"))->numify()->normal; # v1.0.0
```

The reason for this is that the L<numify()|version/numify()> operator will turn "v1.0" into the equivalent string "1.000000". Forcing the outer version object to L<normal()|version/normal()> form will display the mathematically equivalent "v1.0.0".

As the example in L</new()> shows, you can always create a copy of an existing version object with the same value by the very compact:

```
$v2 = $v1->new($v1);
```

and be assured that both C<$v1> and C<$v2> will be completely equivalent, down to the same internal representation as well as stringification.

=back

=over 4

=item Comparison operators

Both C<cmp> and C<E<lt>=E<gt>> operators perform the same comparison between terms (upgrading to a version object automatically). Perl automatically generates all of the other comparison operators based on those two. In addition to the obvious equalities listed below, appending a single trailing 0 term does not change the value of a version for comparison purposes. In other words "v1.2" and "1.2.0" will compare as identical.
For example, the following relations hold:

<table>
<thead>
<tr>
<th>As Number</th>
<th>As String</th>
<th>Truth Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ver &gt; 1.0</td>
<td>$ver gt &quot;1.0&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver &lt; 2.5</td>
<td>$ver lt</td>
<td>true</td>
</tr>
<tr>
<td>$ver != 1.3</td>
<td>$ver ne &quot;1.3&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver == 1.2</td>
<td>$ver eq &quot;1.2&quot;</td>
<td>false</td>
</tr>
<tr>
<td>$ver == 1.2.3.4</td>
<td>$ver eq &quot;1.2.3.4&quot;</td>
<td>see discussion below</td>
</tr>
</tbody>
</table>

It is probably best to choose either the Decimal notation or the string notation and stick with it, to reduce confusion. Perl6 version objects B<may> only support Decimal comparisons. See also L<Quoting Rules>.

WARNING: Comparing version with unequal numbers of decimal points (whether explicitly or implicitly initialized), may yield unexpected results at first glance. For example, the following inequalities hold:

version->new(0.96) > version->new(0.95); # 0.96 > 0.95
version->new("0.96.1") < version->new(0.95); # 0.096.1 < 0.95

For this reason, it is best to use either exclusively L<Decimal Versions> or L<Dotted-Decimal Versions> with multiple decimal points.

=item Logical Operators

If you need to test whether a version object has been initialized, you can simply test it directly:

$vobj = version->new($something);
if ( $vobj ) # true only if $something was non-blank

You can also test whether a version object is an alpha version, for example to prevent the use of some feature not present in the main release:

$vobj = version->new("1.2_3"); # MUST QUOTE
...later...
if ( $vobj->is_alpha ) # True
John Peacock E<jpeacock@cpan.org>E

=head1 SEE ALSO

L<perl>.

=cut

Found in path(s):
* /opt/cola/permits/1175309495_1624358638.49/0/perl-version-0.99.24-1.el8-1.src.rpm-cosi-expand-archive-
  uSrtpzIq/version-0.9924.tar.gz-cosi-expand-archive-10aLngwi/version-0.9924/lib/version/Internals.pod

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version 0.9924

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

Object oriented versions for all Perl releases from 5.6.2 onward. Replaces
the core version code for all Perl releases from 5.10.0 onwards.

Although this code has been fully integrated into the latest Perl release
itself (e.g. bleadperl), the CPAN release is considered upstream. The source
code itself is available from:

  https://github.com/JohnPeacock/version.pm.git

and a bug queue here:


Patches welcomed.

IMPORTANT NOTE - 0.9906 is the last release that fully supports Perl
releases prior to 5.6.2. It is just too much trouble to continue to
fight to maintain full backward compatibility.

YOU SHOULD INSTALL THIS RELEASE WHEN USING VERSION OBJECTS IN PERL 5.10.0.
There was a bug caused by objects serialized by YAML that will cause Perl
5.10.0 to segfault. As long as some module calls 'use version', then the
replacement code will take effect and Perl will not crash.

Please read the POD documentation for usage/details. See the CHANGES file
for full details of all changes to the module behavior.

INSTALLATION

To install this module type the following:
This release includes an optional pure Perl implementation (in case you don't have a C-compiler or if some reason you want your code to be much slower). You can test it by replacing the first line above with:

$ perl Makefile.PL --perl_only

and it will install the Perl only version.

DEPENDENCIES

The same C compiler used to build Perl (or not).

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1.2349 initscripts 10.00.6-1.el8

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Version 2, June 1991

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Found in path(s):
* /opt/cola/permits/1135935007_1613638427.33/0/asm-util-7-2-sources-2-jar/org/objectweb/asm/util/package.html

No license file was found, but licenses were detected in source scan.
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* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY
* WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
*

Found in path(s):
* /opt/cola/permits/1135935007_1613638427.33/0/asm-util-7-2-sources-2-
jar/org/objectweb/asm/util/ASMifierSupport.java
* /opt/cola/permits/1135935007_1613638427.33/0/asm-util-7-2-sources-2-
jar/org/objectweb/asm/util/TextifierSupport.java

1.2352 perl-storable 3.11-3.el8
1.2352.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*

----------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.40

Automatically created by Devel::PPPort running under perl 5.028000.

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.

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

SKIP

=pod

=head1 NAME
perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help     show short help
--version  show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet     don't output anything except fatal errors
--nodiag    don't show diagnostics
--nohints   don't show hints
--nochanges don't suggest changes
--nofilter  don't filter input files
--strip     strip all script and doc functionality
            from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

Display a brief usage summary.

Display the version of F<ppport.h>.

Write one patch file with changes.
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. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<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 F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<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.
Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

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.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, it has dependencies, and if there are hints or warnings for it.

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.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

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.
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 F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables 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 F<ppport.h>.

These functions or variables 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 or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variableGLOBAL

Note that you mustn't have more than one global request for the
<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
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<td>NEED_PL_parser_GLOBAL</td>
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<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
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<td>NEED_croak_xs_usage</td>
<td>NEED_croak_xs_usage_GLOBAL</td>
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<tr>
<td>die_sv()</td>
<td>NEED_die_sv</td>
<td>NEED_die_sv_GLOBAL</td>
</tr>
<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>
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<td>grok_hex()</td>
<td>NEED_grok_hex</td>
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<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
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<tr>
<td>grok_oct()</td>
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<td>NEED_gv_fetchpvn_flags</td>
<td>NEED_gv_fetchpvn_flags_GLOBAL</td>
</tr>
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<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
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<td>mess()</td>
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</tr>
<tr>
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<td>NEED_mess_nocontext</td>
<td>NEED_mess_nocontext_GLOBAL</td>
</tr>
<tr>
<td>mess_sv()</td>
<td>NEED_mess_sv</td>
<td>NEED_mess_sv_GLOBAL</td>
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<td>NEED_mg_findext</td>
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<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
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<td>my_sprintf()</td>
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<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
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<tr>
<td>pv_escape()</td>
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<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
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<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
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<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpbuf()</td>
<td>NEED_sv_catpbuf</td>
<td>NEED_sv_catpbuf_global</td>
</tr>
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<td>sv_catpbuf_noc()</td>
<td>NEED_sv_catpbuf_noc</td>
<td>NEED_sv_catpbuf_noc_GLOBAL</td>
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<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpbuf()</td>
<td>NEED_sv_setpbuf</td>
<td>NEED_sv_setpbuf_Global</td>
</tr>
<tr>
<td>sv_setpbuf_noc()</td>
<td>NEED_sv_setpbuf_noc</td>
<td>NEED_sv_setpbuf_noc_GLOBAL</td>
</tr>
<tr>
<td>sv_unmagicext()</td>
<td>NEED_sv_unmagicext</td>
<td>NEED_sv_unmagicext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vmess()</td>
<td>NEED_vmess</td>
<td>NEED_vmess_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpbuf()</td>
<td>NEED_vnewSVpbuf</td>
<td>NEED_vnewSVpbuf_GLOBAL</td>
</tr>
<tr>
<td>warn()</td>
<td>NEED_warn</td>
<td>NEED_warn_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#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
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:
perl ppport.h --copy=.new

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 send a bug report to L<perlbug@perl.org|mailto:perlbug@perl.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) 2004-2013, 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;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 } 

my $VERSION = 3.40;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '\[ \t\]'; # horizontal whitespace

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '\[ \t\]'; # horizontal whitespace
# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        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.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

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;
}

my %API = map { /^(\w+)|([^\|]*)|([^\|]*)|([^\|]*)$/}{
    ($1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ())
    })
PAD_SET_CUR
PAD_SV
PAD_SV
PERLIO_FUNCS_CAST[5.009003]
PERLIO_FUNCS_DECL[5.009003]
PERL_ABS[5.008001]
PERL_ARGS_ASSERT_CROAK-xs-USAGE
PERL_BCDVERSION[5.024000]
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]
PERL_HASH[5.003070]
PERL_INT_MAX[5.003070]
PERL_INT_MIN[5.003070]
PERL_LONG_MAX[5.003070]
PERL_LONG_MIN[5.003070]
PERL_MAGIC_arylen[5.007002]
PERL_MAGIC_backref[5.007002]
PERL_MAGIC_bm[5.007002]
PERL_MAGIC_collxfrm[5.007002]
PERL_MAGIC_dbfile[5.007002]
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PERL_MAGIC_defelem[5.007002]
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PERL_MAGIC_env[5.007002]
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PERL_MAGIC_fm[5.007002]
PERL_MAGIC_glob[5.024000]
PERL_MAGIC_isaelem[5.007002]
PERL_MAGIC_isa[5.007002]
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PERL_MAGIC_nkeys[5.007002]
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PERL_MAGIC_overload_table[5.007002]
PERL_MAGIC_overload[5.024000]
PERL_MAGIC_pos[5.007002]
PERL_MAGIC_qr[5.007002]
PERL_MAGIC_regdata[5.007002]
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PERL_MAGIC_sigelem[5.007002]
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PERL_MAGIC_taint[5.007002]
PERL_MAGIC_tiedelem[5.007002]
PERL_MAGIC_tiedscalar[5.007002]
PERL_MAGIC_tied[5.007002]
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.024000||p
PLBufptr|5.024000||p
PL_check|5.006000
PL_compiling|5.004050||p
PL_comppad_name|5.017004
PL_comppad|5.008001
PL_copline|5.024000||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.024000||p
PL_expect|5.024000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my__stash|5.024000||p
PL_in_my|5.024000||p
PL_keyword_plugin|5.011002
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.024000||p
PL_lex_stuff|5.024000||p
PL_linestr|5.024000||p
PL_modglobal|5.005000||n
PL_nal|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_peepp|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.024000||p
PL_rsfp|5.024000||p
Slab_to_rw
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SvCUR_set
SvCUR
SvEND
SvGAMAGIC[5.006001]
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
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SvIV
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SvIsCOW[5.008003]
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SvLOCK[5.007003]
SvMAGIC_set[5.009003]
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SvNIOKp
SvNIOK
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SvOK
SvOOK_offset[5.011000]
SvOOK
SvPOK_off
SvPOK_only_UTF8[5.006000]
SvPOK_only
SvPOK_on
SvPOKp
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
SvRV_set[5.009003]|p
SvRV||
SvRXOK[5.009005]|p
SvRX[5.009005]|p
SvSETMAGIC||
SvSHARED_HASH[5.009003]|p
SvSHARE[5.007003]
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SvSTASH||
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SvSetSV_nosteal[5.004000]
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SvTAINTED_on[5.004000]
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SvTHINKFIRST||
SvTRUE_nomg[5.013006]
SvTRUE|||
SvTYPE|||
SvUNLOCK[5.007003]
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SvUPGRADE|||
SvUTF8_off[5.006000]
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yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
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, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";

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$hint = [S1, [split /,?s+/, S2]]
    if m{^s*$rcce\s+(\$hint[Warning]):s+\(\?s+\(\?s+\+\)*)s*\$};

if ($define) {
    if ($define->[1] =~ /$s/) {
        $define->[1] = $_.
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
            undef $define;
        }
    }
    $define = [S1, $2] if m{^\s*#define\s+(\w+)(?:\(\[^\)]*\))?\s+(.*)};

if ($function) {
    if (/^}$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        } else {
            $function->[1] .= $_;
        }
    } else {
        $function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
        $replace = $1 if m{^\s*$rcce\s+Replace:\s+\(\d+\)\s+\$rcce\s*\$};
        $replace{S2} = $1 if $replace and m{^\s*#s*define\s+\(\?s+\(\?s+\+\)*)?s+\(\?s+\+\)\s+\(\?s+\(\?s+\+\)*)?s+\(\?s+\+\)\s+\(\?s+\+\)\s+\$rcce\s*\$};
        $replace{S2} = $1 if m{^\s*#s*define\s+\(\?s+\(\?s+\+\)*)?s+\(\?s+\+\)\s+\(\?s+\(\?s+\+\)*)?s+\(\?s+\+\)\s+\$rcce\s*\$};
        $replace{S1} = $2 if m{^\s*$rcce\s+Replace \(\?s+\?s+\+\)\s+\(\?s+\?s+\+\)\s+\(\?s+\?s+\+\)\s+\$rcce\s*\$};

    if (m{^\s*$rcce\s+\(\?s+\?s+\+\)\s+\(\?s+\?s+\+\)\s+\$rcce\s*\$}) {
        my @deps = map { s/\s+//g; $_ } split /, S3;
        my $d;
        for $d (map { s/\s+//g; $_ } split /, S1) {
            push @{$depends{$d}}, @deps;
        }
    }
}
$need{$1} = 1 if m{\^if\$s+defined\(NEED_(\w+)(?:_-_GLOBAL)?\)};

for (values %depends) {
    my %s;
    $_. = [sort grep !$_{$_}++, @$_];
}

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 "Depends on: ", join(’, ’, @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "\nShints[$f]" if exists $hints{$f};
            print "\nWARNING:\nWarnings[$f]\n" if exists $warnings{$f};
            $info++;
        }
        print "\nNo portability information available.\n" unless $info;
        $count++;
    };
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    print "\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};
        print "\n=== $f ===\n\n";
        print "\nNo portability information available.\n" unless $info;
        $count++;
    };
    $count or print "Found no API matching '$opt{'list-provided'}'.\n";
    print "\n";
    exit 0;
}
push @flags, 'hint' if exists $hints{$f};
push @flags, 'warning' if exists $warnings{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
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 }, $_;
}

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if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
| ", join "| ", @out);
}
%files = @in;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
| ";
        next;
    } else {
        info("Scanning $filename ...");

        my $c = do { local $/; <IN> }; close IN;
        my %file = (orig => $c, changes => 0);

        # Temporarily remove C/XS comments and strings from the code
        my @ccom;

        $c = s{ (^SHS*#SHS*include\b[^\r\n]+\b(?:QSppportE|XSUB\b)|[^\r\n]* ) | (^SHS*#SHS*\?\?define\?\?ifdef\?\?ifndef\b[^\r\n]* ) | (^SHS*#SHS*[^\r\n]* | "| ^" | \[| ^" | ' | ^' | / | ^/ | \[/| \[/ | /\[/ | /\[/ | /\[/ | /\[/ ) | { defined $2 and push @ccom, $2; } defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

        $file{ccom} = @ccom;
        $file{code} = $c;
        $file{has_inc_ppport} = $c =~ /^SHS*#SHS*include[^\r\n]+\b\QQSppportE\b[^\r\n]* */;

        my $func;

        for $func (keys %API) {
            my $match = $func;
            $match .= "$revreplace{$func}" if exists $revreplace{$func};

        }
    }
}

die "No input files given!
| ";
if ($c =~ Ab(?::Perl_)?(Smatch)$b/) {
    $file{uses_replace}{'$1'}++ if exists $revreplace{Sfunc} & $1 eq $revreplace{Sfunc};
    $file{uses_Perl}{'$func'}++ if $c =~ AbPerl$_func$/b;
if (exists $API{Sfunc}{provided}) {
    $file{uses_provided}{'$func'}++;
    if (!exists $API{Sfunc}{base} || $API{Sfunc}{base} > $opt{'compat-version'}) {
        $file{uses}{'$func'}++;
        my @deps = rec_depend($func);
        if (@deps) {
            $file{uses_deps}{'$func'} = @{$deps};
            for ($func, @deps) {
            $file{uses}{'$_'} = 0 unless exists $file{uses}{'$_'};
            }
            }
        }
    } 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} = %$file;
}
while ($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 @t = grep $files{$_}{needed_global}{need}, @targets;
@targets = @t if @t;
@t = grep /xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$file{$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};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\s*])(?!\s*\}\s*\}\s*\))}{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ' }. $2 )ge);            
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s\bPerl_$func\(\s*\)(?!\s*aTHX_\(\s*\)?)\s*\)?\s*\}){$func$1\1\);\ge);            
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s\bPerl_$func\(\s*\)(?!\s*aTHX_\(\s*\)?)\s*\)?\s*\}){$func$1\1\);\ge);            
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s\b$func\b/$replace{$func}/g);\ge);            
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                warning("Uses $func instead of $replace{$func}");
                $file{changes} += ($c =~ s\b$func\b/$replace{$func}/g);\ge);            
            }
        }
    }
}
diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
}
else {
    diag("Uses $func");
}

$warnings += hint($func);

}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport'\n";
        $warnings++;
    }
}

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 $func is never used";
    }
    elsif ($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";
        }
        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'");
        $pp = qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^(?=$HS*#\$HS*define\$HS+NEED_\w+.*?)^/$1$pp/m)
            || ($c =~ s/^(?=$HS*#\$HS*include.*?\Q$ppport\E)/$pp/m)
            || ($c =~ s/^(?=$HS*#\$HS*include.*?XSUB.*?\s*?)^/$1$pp/m)
            || ($c =~ s/^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^(?=$HS*#?\$HS*include.*?\Q$ppport\E.*?SLF//m);
    }
}

# 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} += $c =~ s/$rcce$ix$rcce/$c/$i;
    } else {
        $c =~ s/$rcce$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");

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") {
                info("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: $!");
                    delete $opt{patch};
                }
            }
        } else {
            error("Cannot open '$opt{patch}' for writing: $!");
        }
    }
}
$opt{changes} = 1;
goto fallback;
}
}
mydiff("\*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff("\*STDOUT, $filename, $c);
    }
}
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 try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    my ($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $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 $tmp |") {
            while (<F>) {
                s/Q$\s*tmp\s*E/$file.patched/;
                $diff .= $_
            }
            close F;
        unlink $tmp;
        return $diff;
    }

    unlink $tmp;
    }

    else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}
sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$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\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d+)/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version \$ver\n";
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d+)/;

    $v = int $v;
    $s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver'
    }  
    $s /= 10;

    $ver = sprintf "%.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}

return sprintf "%.%.d", $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;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /=head\d\s+SYNOPSIS\s*\^(.*?)\s*\^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^X $0/;
    $usage =~ s/[A-Z]<(([^>]+)>)/\s*\$M{S1}\s*\$M{S1}/g;

    print <<<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
ENDUSAGE

    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /=head\d\s+COPYRIGHT\s*\^(.*?)\s*\^=/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/\s*\$HS+Do NOT edit.*?\(\^\^\^\^)/\s*\$M{S1}\s*\$M{S1}/g;

    if (!(@ARGV && $ARGV[0] eq '--unstrip')) {
        eval { require Devel::PPPort };  
        \$@ and die "Cannot require Devel::PPPort, please install.";
        if (eval \$Devel::PPPort::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n";
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
}
The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

```
perl Makefile.PL [PERL_SRC=...where you put perl sources...]
makedep
make
make install
```

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by cperl, https://github.com/rurban/Storable/
Note that p5p still ships an old broken version, without stack overflow protection and large object support. As long as you don't store overlarge objects, they are compatible.

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael.
Please don't e-mail Raphael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.
Thanks to (in chronological order):

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Justin Banks <justinb@wamnet.com>
Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)
Todd Rinaldo <toaldd@cpanel.net> and JD Lightsey <jd@cpanel.net>
for optional disabling tie and bless for increased security.
Reini Urban <rurban@cpanel.net> for the 3.0x >2G support and rewrite
JD Lightsey <jd@cpanel.net>

for their contributions.

A Japanese translation of this man page is available at the Japanized

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped
bring you this Storable release:

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abstract: 'persistence for Perl data structures'
author:
  - 'Perl 5 Porters'
buildRequires:
  ExtUtils::MakeMaker: '0'
configureRequires:
  ExtUtils::MakeMaker: '0'
dynamicConfig: 1
generatedBy: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Storable
noIndex:
directory:
  - t
  - inc
provides:
  Storable:
    file: __Storable__.pm
    version: '3.11'
requires:
  XSLoader: '0'
resources:
  bugTracker: http://rt.perl.org/perlbug/
  version: '3.11'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
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1.2353 asm-tree 7.2
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Found in path(s):
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/Util.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/AnnotationNode.java
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Found in path(s):
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/package.html

1.2354 kafka-avro-serializer 5.5.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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/* The following code is added by mdx_elementid.py
   It was originally lifted from http://subversion.apache.org/style/site.css */

/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/

.headerlink, .elementid-permalink {
  visibility: hidden;
}

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
  .headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }

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cd <LICENSE_TOOL_PATH>
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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<img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
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gcse.async = true;
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</script>
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<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
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Additional

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
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https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.2366 color 1.7.0

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1.2368 jquery-mousewheel 3.1.13

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1.2370 logstash-input-http 3.4.5-java

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Version 2.1, February 1999

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

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

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

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

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* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/MessageInfoFactory.java
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/BlockingRpcChannel.java
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

    Author: Julio Merino <jmmv@NetBSD.org>

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

    Author: Julio Merino <jmmv84@gmail.com>

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

    Author: Julio Merino <jmmv84@gmail.com>

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1.2382 metrics 3.2.2

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* /opt/cola/permits/1262723137_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MetricsTimeSlot.java
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* /opt/cola/permits/1262723137_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MultiMetricsData.java

1.2383 murmur-hash 0.1.6
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[![Build Status](https://travis-ci.org/PeterScott/murmur3.svg?branch=master)](https://travis-
C port of Murmur3 hash
======================
This is a port of the [Murmur3](http://code.google.com/p/smhasher/wiki/MurmurHash3) hash function. Murmur3 is a non-cryptographic hash, designed to be fast and excellent-quality for making things like hash tables or bloom filters. This is a port of the original C++ code, designed for Visual Studio, into standard C that gcc can compile efficiently.

How to use it
-------------

Just compile and link your program with `murmur3.c`, and be sure to include `murmur3.h` to get the function prototypes. There are three hash functions:

```c
void MurmurHash3_x86_32 (const void *key, int len, uint32_t seed, void *out);
void MurmurHash3_x86_128(const void *key, int len, uint32_t seed, void *out);
void MurmurHash3_x64_128(const void *key, int len, uint32_t seed, void *out);
```

All three of these functions have the same interface: you give them `key`, a pointer to the data you wish to hash; `len`, the length in bytes; `seed`, an arbitrary seed number which you can use to tweak the hash, and `out`, a pointer to a buffer big enough to hold the hash's output value.

The hash functions differ in both their internal mechanisms and in their outputs. They are specialized for different use cases:

**MurmurHash3_x86_32** has the lowest throughput, but also the lowest latency. If you're making a hash table that usually has small keys, this is probably the one you want to use on 32-bit machines. It has a 32-bit output.

**MurmurHash3_x86_128** is also designed for 32-bit systems, but produces a 128-bit output, and has about 30% higher throughput than the previous hash. Be warned, though, that its latency for a single 16-byte key is about 86% longer!

**MurmurHash3_x64_128** is the best of the lot, if you're using a 64-bit machine. Its throughput is 250% higher than MurmurHash3_x86_32, but it has roughly the same latency. It has a 128-bit output.

The hash functions are designed to work efficiently on x86 processors; in particular, they make some assumptions about the endianness of the processor, and about the speed of unaligned reads. If you have problems running this code on non-x86 architectures, it should be possible to modify it to work correctly and efficiently -- I just don't have access to those machines for testing. The code in `murmur3.c` is pretty straightforward, and shouldn't be too hard to alter.

There is an example program, `example.c`, which you can look at and play with. You can build it with the makefile.
License and contributing

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

All this code is in the public domain. Murmur3 was created by Austin Appleby, and the C port and general tidying up was done by Peter Scott. If you’d like to contribute something, I would love to add your name to this list.

Found in path(s):
* /opt/cola/permits/1156528848_1623215417.26/0/murmur3-master-zip/murmur3-master/README.md

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* /opt/cola/permits/1156528848_1623215417.26/0/murmur3-master-zip/murmur3-master/murmur3.h

1.2384 e2fsprogs 1.45.5 2ubuntu1

1.2384.1 Available under license:

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

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

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
In order to use this stub, the following makefile variables must be defined.

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

all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

```
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f../$(BSD_LIB)
```

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

It is part of the main e2fsprogs distribution, which can be found at:
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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

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>,
from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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David Megginson, david@megginson.com
2000-05-05

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1.2407 perl-exporter 5.72-396.el8

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=head1 NAME
Exporter - Implements default import method for modules

=head1 SYNOPSIS
In module F<YourModule.pm>:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

    use YourModule qw(frobnicate);  # import listed symbols
    frobnicate ($left, $right)       # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

=head1 DESCRIPTION
The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```perl
    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```perl
    my $subref = sub { ... };
    $subref->(@args);       # Call it as a function
    $obj->$subref(@args);   # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented
then export nothing. If it's just a collection of functions then
C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and
method names use barewords in preference to names prefixed with
ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace
of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace.
All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error
occurs. The advanced export features of Exporter are accessed like this,
but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you
need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then
the list is treated as a series of specifications which either add to
or delete from the list of names to import. They are processed left to
right. Specifications are in the form:

[!]name         This name only
[!]:DEFAULT     All names in @EXPORT
[!]:tag         All names in $EXPORT_TAGS{tag} anonymous list
[!]:pattern/    All names in @EXPORT and @EXPORT_OK which match
A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

```perl
@EXPORT   = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } > to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level(
$where_to_export, $package, @what_to_export
);
```

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<$@what_to_export> is an array telling what symbols *to* export (usually this is C<$@ _>). The C<$package> argument is currently unused.
For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}
```

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do:

```perl
package YourModule;
use Exporter qw(import);
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C<@YourModule::ISA>.
Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to $module_name->VERSION($value). This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a require_version method that simply delegates to VERSION. Originally, before UNIVERSAL::VERSION existed, Exporter would call require_version.

Since the UNIVERSAL::VERSION method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

@failed_symbols = $module_name->export_fail(@failed_symbols);

If the export_fail method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default export_fail method which simply returns the list unchanged.

Uses for the export_fail method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions
Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

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=head2 AUTOLOAD-ed Constants

Many modules make use of AUTOLOAD-ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see \L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been AUTOLOAD-ed yet). perl needs to examine both the \C<() prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

    package My ;
    use Socket ;
    foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }
    foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the AUTOLOAD for SO_LINGER to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that AUTOLOADs, consider forcing an AUTOLOAD for any constants explicitly imported by other packages or which are usually used when your package is used.

=head1 Good Practices

=head2 Declaring @EXPORT_OK and Friends

When using \<Exporter> with the standard \<strict> and \<warnings> pragmas, the \C<our> keyword is needed to declare the package variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must write instead a \<use vars> statement.

    use vars qw(@ISA @EXPORT_OK);
    @ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);

=head2 Playing Safe

There are some caveats with the use of runtime statements like C<require Exporter> and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use C<BEGIN> blocks. So the first part of the L</SYNOPSIS> code could be rewritten as:

    package YourModule;

    use strict;
    use warnings;

    our (@ISA, @EXPORT_OK);
    BEGIN {
        require Exporter;
        @ISA = qw(Exporter);
        @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
    }

    The C<BEGIN> will assure that the loading of F<Exporter.pm> and the assignments to C<@ISA> and C<@EXPORT_OK> happen immediately, leaving no room for something to get awry or just plain wrong.

    With respect to loading C<Exporter> and inheriting, there are alternatives with the use of modules like C<base> and C<parent>.

    use base qw(Exporter);
    # or
    use parent qw(Exporter);

    Any of these statements are nice replacements for C<BEGIN { require Exporter; @ISA = qw(Exporter); }} > with the same compile-time effect. The basic difference is that C<base> code interacts with declared C<fields> while C<parent> is a streamlined version of the older C<base> code to just establish the IS-A relationship.

    For more details, see the documentation and code of L<base> and L<parent>.
Another thorough remedy to that runtime vs. compile-time trap is to use `Exporter::Easy`, which is a wrapper of `Exporter` that allows all boilerplate code at a single gulp in the `use` statement.

```perl
use Exporter::Easy (
  OK => [ qw(munge frobnicate) ],
); # @ISA setup is automatic
# all assignments happen at compile time
```

=head2 What Not to Export

You have been warned already in `Selecting What to Export` to not export:

=over 4
=item *

method names (because you don't need to and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users... badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do not export variable names. Just because `Exporter` lets you do that, it does not mean you should.

```perl
@EXPORT_OK = qw($svar @avar %hvar); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide
settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Pick the one that fits your needs. The following is a sample list of such modules.

    Exporter::Easy
    Exporter::Lite
    Exporter::Renaming
    Exporter::Tidy
    Sub::Exporter / Sub::Installer
    Perl6::Export / Perl6::Export::Attrs

=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/1175309398_1624358518.5/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-4myci75G/Exporter-5.70.tar.gz-cosi-expand-archive-4nalPc7P/Exporter-5.70/lib/Exporter.pm

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

=attr

NAME
    Exporter - Implements default import method for modules

SYNOPSIS
    In module YourModule.pm:

        package YourModule;
        require Exporter;
        @ISA = qw(Exporter);
        @EXPORT_OK = qw(munge frobnicate); # symbols to export on request

    or

        package YourModule;
        use Exporter 'import'; # gives you Exporter's import() method directly
        @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
In other files which wish to use "YourModule":

use YourModule qw(frobnicate);  # import listed symbols
frobnicate ($left, $right)        # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export
Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.
(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... };
$subref->(@args); # Call it as a function
$obj->$subref(@args); # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features

Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

```plaintext
[!]name       This name only
[!]:DEFAULT   All names in @EXPORT
```
A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., Module.pm defines:

@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);

Note that you cannot use tags in @EXPORT or @EXPORT_OK. Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

use Socket qw(!/[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(!errno_h !termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @__). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
   $A::b = 1;  # not a very useful import method
}

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
   $A::b = 1;
   A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

package YourModule;
use Exporter qw( import );

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

```
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
```
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

    %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

    # add all the other ":class" tags to the ":all" class,
    # deleting duplicates
    {
        my %seen;
        push @{$EXPORT_TAGS{all}},
            grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
    }

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

    # add some of the other ":class" tags to the ":all" class,
    # deleting duplicates
    {
        my %seen;
        push @{$EXPORT_TAGS{all}},
            grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
            foreach qw/html2 html3 netscape form cgi internal/;
    }

Note that the tag names in %EXPORT_TAGS don't have the leading ':'.

"AUTOLOAD"ed Constants
Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to
examine both the "()" prototype and the body of a subroutine at compile
time to detect that it can safely replace calls to that subroutine with
the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

    package My;

    use Socket;

    foo( SO_LINGER );     ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }
    foo( SO_LINGER );     ## SO_LINGER optimized away at compile time.

This forces the "AUTOLOAD" for "SO_LINGER" to take place before
SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an
"AUTOLOAD" for any constants explicitly imported by other packages or
which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas,
the "our" keyword is needed to declare the package variables @EXPORT_OK,
@EXPORT, @ISA, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must
write instead a "use vars" statement.

    use vars qw(@ISA @EXPORT_OK);
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require
Exporter" and the assignment to package variables, which can very subtle
for the unaware programmer. This may happen for instance with mutually
recursive modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to
use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
rewritten as:
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the
assignments to @ISA and @EXPORT_OK happen immediately, leaving no room
for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are
alternatives with the use of modules like "base" and "parent".

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require
Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The
basic difference is that "base" code interacts with declared "fields"
while "parent" is a streamlined version of the older "base" code to just
establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use
Exporter::Easy, which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the use statement.

use Exporter::Easy (  
    OK => [ qw(munge frobnicate) ],
);
# @ISA setup is automatic
# all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do
  what you want),
* anything by default (because you don't want to surprise your
  users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

    @EXPORT_OK = qw( $svar @avar %hvar ); # DONT!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

    Exporter::Easy
    Exporter::Lite
    Exporter::Renaming
    Exporter::Tidy
    Sub::Exporter / Sub::Installer
    Perl6::Export / Perl6::Export::Attrs

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* /opt/cola/permits/1175309398_1624358518.5/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-4myci75G/Exporter-5.70.tar.gz-cosi-expand-archive-4nalPc7P/Exporter-5.70/README
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---
abstract: 'Implements default import method for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, 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: Exporter
no_index:
directory:
  - t
  - inc
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 5.70

Found in path(s):
* /opt/cola/permits/1175309398_1624358518.5/0/perl-Exporter-5.72-396.el8-1.src.rpm-cosi-expand-archive-4myci75G/perl-Exporter.spec

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1.2408 libnfsidmap 2.3.3-31.el8

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 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 * *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
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 * version.
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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 *         Date: 2006-sep-08
 */
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
 will not
 * affect the flow or grid positions. The positioning is relative to the parent and can not (as padding) be used
 * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.  
 * <code>null</code> for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1 
 * and x2 will just absolutely positions the component.
 * <p>
* Note that \{@link #setBoundsInGrid(boolean)\} changes the interpretation of this property slightly.
* <p>
* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at
* @return The current value as a new array, free to modify.
*/

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* @version 1.0
* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
>Returns the gaps as pixel values.
* @param parent The parent. Used to get the pixel values.
* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
* @param refSize The reference size used to get the pixel sizes.
* @param before IF it is the gap before rather than the gap after to return.
* @return The \[min,preferred,max\] sizes for the specified gap. Uses \{@link net.miginfocom.layout.LayoutUtil#NOT_SET\}
* for gap sizes that are code null</code>. Returns code null</code> if there was no gap specified. A new and
free to use array.
*/

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Additional -

File: PSReadLine

https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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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
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Cheers
--
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1.2419 json-smart 1.3.2  
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* /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONUtil.java
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* /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONArray.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserReader.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONStyleIdent.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserInputStream.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ContentHandler.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParser.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserStream.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserMemory.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserBase.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserByteArray.java
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  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserBase.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserByteArray.java
  /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-
Found in path(s):
* /opt/cola/permits/1211526287_1633593172.35/0/json-smart-1-3-2-sources-2-jar/META-INF/maven/net.minidev/json-smart/pom.xml

1.2420 tre 0.8.0

1.2420.1 Available under license:

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1.2421 libtdb 1.4.2-2.el8

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/*
Unix SMB/CIFS implementation.

trivial database library

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* /opt/cola/permits/1151573784_1617928381.55/0/chaijs-chai-1-9-2-0-g15eab03-tar-gz/chaijs-chai-73b4559/lib/chai/interface/should.js
* /opt/cola/permits/1151573784_1617928381.55/0/chaijs-chai-1-9-2-0-g15eab03-tar-gz/chaijs-chai-73b4559/lib/chai/interface/expect.js

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  73b4559/lib/chai/utils/test.js
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Chai is a BDD / TDD assertion library for [node](http://nodejs.org) and the browser that can be delightfully paired with any javascript testing framework.

For more information or to download plugins, view the [documentation](http://chaijs.com).


### Plugins

Chai offers a robust Plugin architecture for extending Chai's assertions and interfaces.

- Need a plugin? View the [official plugin list](http://chaijs.com/plugins).
- Have a plugin and want it listed? Open a Pull Request at [chaijs/chai-docs:plugin.js](https://github.com/chaijs/chai-docs/blob/master/plugins.js#L1-L12).
- Want to build a plugin? Read the [plugin api documentation](http://chaijs.com/guide/plugins/).

### Related Projects

- [chaijs / assertion-error](https://github.com/chaijs/assertion-error): Custom `Error` constructor thrown upon an assertion failing.
- [chaijs / deep-eql](https://github.com/chaijs/deep-eql): Improved deep equality testing for Node.js and the browser.

### Contributors

project : chai
repo age : 2 years, 3 months ago
commits : 756
active : 170 days
files : 57
authors :

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* /opt/cola/permits/1151573784_1617928381.55/0/chaijs-chai-1-9-2-0-g15eab03-tar-gz/chaijs-chai-73b4559/README.md

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/!
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Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2  53046

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Contributors:
* Aaron Mildenstein (untergeek)
* Pier-Hugues Pellerin (ph)

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Julian Seward, jseward@bzip.org
bzlib/libbzlib version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in
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use of source code generators and preprocessors need not be considered
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<td>lib/interception/mach_override</td>
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1.2433 x-net 0.0.0-20210903162142-ad29c8ab022f

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1.2443 perl-pod-simple 3.35-395.el8

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---

abstract: 'framework for parsing Pod'
author:
  - 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Pod-Simple
no_index:
directory:
  - t
  - inc
recommends:
  Encode: '2.78'
requires:
  Carp: '0'
  Config: '0'
  Cwd: '0'
  File::Basename: '0'
  File::Find: '0'
  File::Spec: '0'
Pod::Escapes: '1.04'
Symbol: '0'
Test: '1.25'
Test::More: '0'
Text::Wrap: '98.112902'
integer: '0'
overload: '0'
strict: '0'
resources:
  bugtracker: https://github.com/perl-pod/pod-simple/issues
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/perl-pod/pod-simple.git
version: '3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

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=head1 NAME
Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS
perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION
This module is used for running batch-conversions of a lot of HTML documents.

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

  use Pod::Simple::HTMLBatch;
  my $batchconv = Pod::Simple::HTMLBatch->new;
  $batchconv->some_option( some_value );
  $batchconv->some_other_option( some_other_value );
  $batchconv->batch_convert( \@search_dirs, $output_dir );

=head2 FROM THE COMMAND LINE
Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It’s meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
(tо convert the pod from Perl's @INC
files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
tо enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
(to convert the pod under the current dir into HTML
files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
(to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );
this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC] , ...);

These two values for $indirs specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);

This specifies that the input directories are the items in
the arrayref C<@dirs>.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current
directory:

 $batchconv->batch_convert( "." , ...);

=item $batchconv->batch_convert( 'somedir:someother:also' , ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C<qw( somedir someother also)>. Note that a ":"-separator is normal
under Unix, but Under MSWin, you'll need C<somedir:someother:also>
instead, since the pathsep on MSWin is ",;" instead of ":;". (And
I<that> is because ":;" often comes up in paths, like
C<"c:/perl/lib">.)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert( ... , undef );

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> with
no arguments (or undef arguments) means "go from @INC, into
the current directory.)

=item $batchconv->batch_convert( ... , 'somedir' );
This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method, like so:

    Pod::Simple::HTMLBatch->batch_convert( ... );

That is just short for this:

    Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.

=over

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little
table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>

=item $batchconv->contents_page_end( I<HTML_string> );

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

<p class='contentsfooty'>Generated by
Pod::Simple::HTMLBatch v3.01 under Perl v5.008
At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>

=item $batchconv->add_css( $url );

TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those. TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );
If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that it's loaded before Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override
$module->page->batch_mode_page_object_init($self, $module, $ofile, $outfile, $depth)
or maybe override
$batchconv->batch_mode_page_object_init($page, $module, $ofile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to
that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
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=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back
Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/HTMLBatch.pm

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

=head1 NAME
Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsText -e "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION
This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO
L<Pod::Simple::DumpAsXML>
L<Pod::Simple>

=head1 SUPPORT
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=item * David E. Wheeler &lt;dwheeler@cpan.org&gt;

=back

=cut

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=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L&lt;Pod::Simple::PullParser&gt; and inherits all its
methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string('<my $html>);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!\n";
print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;

Set the content type:

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

$p->html_javascript("<script type="text/javascript" src="http://abc.com/b.js"></script>
<script type="text/javascript" src="http://abc.com/c.js"></script>");
Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:

$p->html_css('  
  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">'));

Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">\n};

Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" > };

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to ")

$Pod::Simple::HTML::Computerese = ' class="some_class_name';

=head2 html_css

=head2 html_javascript

=head2 title_prefix
This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

```perl
$p->html_header_before_title('<html><head><title>');
```

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML. You can change it by calling:

```perl
$p->top_anchor('<a name="zz" >');
```

Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

```perl
$p->html_h_level(3);
```

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

```perl
$p->index(1);
```

Includes the closing tag of <title> and through the rest of the head till the opening of the body

```perl
$p->html_header_after_title('</title>...</head><body id="my_id">');
```

The very end of the document:

```perl
$p->html_footer( qq\[
<!-- end doc -->

</body></html>
\] );
```
Can use any of the methods described above but for further customization one needs to override some of the methods:

```perl
package My::Pod;
use strict;
use warnings;

use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
    # My::Pod object and Pod::Simple::PullParserStartToken object
    my ($self, $link) = @_;

    say $link->tagname;  # will be L for links
    say $link->attr('to');  #
    say $link->attr('type');  # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
        my $to = $link->attr('to');
        if ($to =~ /^Padre::/) {
            $to =~ s{::}{/}g;
            return "/docs/Padre/$to.html";
        }
    }

    # all other links are generated by the parent class
    my $ret = $self->SUPER::do_pod_link($link);
    return $ret;
}
1;
```

Meanwhile in script.pl:

```perl
use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
```
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common
idioms?

=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its
L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the
site for Perl module links.

=head1 AUTHOR
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=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e "exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT
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=back
=cut

Found in path(s):

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

Pod::Simple::Search - find POD documents in directory trees

SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')-'survey';
print "Looky see what I found: ",
  join(‘ ’, sort keys %$name2path), "\n";

print "LWPUA docs = ",
  Pod::Simple::Search->new->find('LWP::UserAgent') || '?' ,
  "\n";

DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches
for Pod files. An object of this class has several attributes
(mostly options for controlling search options), and some methods
for searching based on those attributes.

The way to use this class is to make a new object of this class,
set any options, and then call one of the search options
(probably C<survey> or C<find>). The sections below discuss the
syntaxes for doing all that.

CONSTRUCTOR

This class provides the one constructor, called C<new>.
It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

ACCESSORS

This class defines several methods for setting (and, occasionally,
reading) the contents of an object. With two exceptions (discussed at
the end of this section), these attributes are just for controlling the
way searches are carried out.

Note that each of these return C<$self> when you call them as
C<< $self->I<whatever(value)>>. That's so that you can chain
together set-attribute calls like this:

  my $name2path =
Pod::Simple::Search->new
  -> inc(0) -> verbose(1) -> callback(&blab)
  -> survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);

=item $search->inc( I<true-or-false> )

This attribute, if set to a true value, means that searches should implicitly add perl's I<@INC> paths. This automatically considers paths specified in the C<PERL5LIB> environment as this is prepended to I<@INC> by the Perl interpreter itself. This attribute's default value is B<TRUE>. If you want to search only specific directories, set $self->inc(0) before calling $inc->survey or $inc->find.

=item $search->verbose( I<nonnegative-number> )

This attribute, if set to a nonzero positive value, will make searches output (via C<warn>) notes about what they're doing as they do it. This option may be useful for debugging a pod-related module. This attribute's default value is zero, meaning that no C<warn> messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

=item $search->limit_glob( I<some-glob-string> )

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "LW"; or you might search for "*Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD").

=item $search->callback( I<\&some_routine> )
This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would be in C<@_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.

=item $search->laborious( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly. This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do I<not> match the current Perl interpreter's version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->recurse( I<true-or-false> );

Unless you set this attribute to a false value, Pod::Search will recurse into subdirectories of the search directories.

=item $search->shadows( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< $self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=item $search->limit_re( I<some-regexp> );

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given
regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressible as "File/Find"). For example, the search option C<< $search->limit_glob("File::Find::R*") >> is the same as the combination of the search options C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)

=item $search->progress( I<some-progress-object> );

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a C<reach> method and a C<done> method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the C<progress> option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and C<done> methods are called like this:

# Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

=item $name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the
result of \texttt{C<survey>} method, as discussed in the next section.

\begin{verbatim}
=item $path2name = $self->path2name;
\end{verbatim}

This attribute is not a search parameter, but is used to report the result of \texttt{C<survey>} method, as discussed in the next section.

\begin{verbatim}
=back
\end{verbatim}

\section*{MAIN SEARCH METHODS}

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

\begin{verbatim}
=head2 \texttt{C<< $search->survey( @directories ) >}}
\end{verbatim}

The method \texttt{C<survey>} searches for POD documents in a given set of files and/or directories. This runs the search according to the various options set by the accessors above. (For example, if the \texttt{C<inc>} attribute is on, as it is by default, then the perl \texttt{@INC} directories are implicitly added to the list of directories (if any) that you specify.)

The return value of \texttt{C<survey>} is two hashes:

\begin{verbatim}
=over

=item \texttt{C<name2path>}
\end{verbatim}

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

\begin{verbatim}
=item \texttt{C<path2name>}
\end{verbatim}

A hash that maps from each Pod filespec to its pod-name (like "/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

\begin{verbatim}
=back
\end{verbatim}

Besides saving these hashes as the hashref attributes \texttt{C<name2path> and C<path2name>}, calling this function also returns these hashrefs. In list context, the return value of \texttt{C<< $search->survey >>} is the list \texttt{C<\%name2path, \%path2name>}. In scalar context, the return value is \texttt{C<\%name2path>}. Or you can just call this in void context.

Regardless of calling context, calling \texttt{C<survey>} saves
its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file
F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>,
whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be
I<Myclass::Subclass>. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. F<CPAN.pm> in
different directories). This usually indicates duplicate occurrences of
modules in the I<@INC> search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are
searched recursively, or files. (Usually you wouldn't specify files,
but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like
extension (.pm, .pl, .pod) stripped, and path separators replaced by
C<:>'s.

Calling Pod::Simple::Search->search(...) is short for
Pod::Simple::Search->new->search(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also
strips Perl-like extensions (.pm, .pl, .pod) and extensions like
F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 C<< $search->find( $pod ) >>

=head2 C<< $search->find( $pod, @search_dirs ) >>

Returns the location of a Pod file, given a Pod/module/script name
(like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of
what files/directories to look in.
It searches according to the various options set by the accessors above.
(For example, if the C<inc> attribute is on, as it is by default, then
the perl @INC directories are implicitly added to the list of
directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically converted to directory
names in the selected directory. Additionally, '.pm', '.pl' and '.pod'
are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm",
"somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a <pod/> subdirectory,
then it is searched. (That's how we manage to find <perlfunc>,
for example, which is usually in <pod/perlfunc> in most Perl dists.)

The <verbose> and <inc> attributes influence the behavior of this
search; notably, <inc>, if true, adds @INC I<and also
$Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new
->find("perlvar") >> so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the <inc>
attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object
with default attribute values is used.

=head2 $self->contains_pod( $file )

Returns true if the supplied filename (not POD module) contains some Pod
documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS
Copyright (c) 2002 Sean M. Burke.

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

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<d wheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLClFC4/Pod-Simple-3.35/lib/Pod/Simple/Search.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e \
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
This class is for checking the syntactic validity of Pod. It works by basically acting like a simple-minded version of L<Pod::Simple::Text> that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=over
NAME

perfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION

This section of the FAQ answers questions related to programmer tools
and programming support.

How do I do (anything)?

Have you looked at CPAN (see L<perlfaq2>)? The chances are that
someone has already written a module that can solve your problem.
Have you read the appropriate man pages? Here's a brief index:

Basics       perldata, perlvar, perlsyn, perlop, perlsub
Execution    perlrn, perldebug
Functions    perlfunc
Objects      perlrref, perlmod, perlobj, perltie
Data Structures perlrref, perllol, perldsc
Modules      perlmod, perlmodlib, perlsub
Regexes      perlre, perlfunc, perlop, perllocale
Moving to perl5perltrap, perl
Linking w/Cperlxsut, perlxs, perlcall, perl guts, perlembd
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in L<perltoe>.

How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the
perldebug(1) man page, on an ``empty'' program, like this:

perl -de 42
Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

=head2 Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

=head2 How do I debug my Perl programs?

Have you tried C<use warnings> or used C<-w>?? They enable warnings to detect dubious practices.

Have you tried C<use strict>?? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with C<my>, C<our>, or C<use vars>.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

open(FH, "> /etc/cantwrite")
  or die "Couldn't write to /etc/cantwrite: $!
"

Did you read L<perltrap>? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like I<awk> and I<C>.

Have you tried the Perl debugger, described in L<perldebug>? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

=head2 How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

use Benchmark;
@junk = `cat /etc/motd`; $count = 10_000;

timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ ;}
        return @a
    });

This is what it prints (on one machine--your results will be dependent
on your hardware, operating system, and the load on your machine):

Benchmark: timing 10000 iterations of for, map...
    for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
    map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)

Be aware that a good benchmark is very hard to write. It only tests the
data you give it and proves little about the differing complexities
of contrasting algorithms.

=head2 How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler
(not the general distribution prior to the 5.005 release), can be used
to generate cross-reference reports for Perl programs.

    perl -MO=Xref[,OPTIONS] scriptname.plx

=head2 Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does
for C. The complex feedback between the scanner and the parser (this
feedback is what confuses the vgrind and emacs programs) makes it
challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in L<perlstyle>, you
shouldn't need to reformat. The habit of formatting your code as you
write it will help prevent bugs. Your editor can and should help you
with this. The perl-mode or newer cperl-mode for emacs can provide
remarkable amounts of help with most (but not all) code, and even less
programmable editors can provide significant assistance. Tom swears
by the following settings in vi and its clones:
set ai sw=4
map! ^O {^M}^[O^T

Now put that in your F.exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting—as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

=head2 Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

=head2 Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE—Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

=over 4
=item CodeMagicCD

http://www.codemagiccd.com/

=item Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
=item The Object System

(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

=item PerlBuilder

(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

=item Perl code magic

(http://www.petes-place.com/codemagic.html).

=item visiPerl+

http://helpconsulting.net/visiperl/, from Help Consulting.

=back

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

=over 4

=item GNU Emacs

http://www.gnu.org/software/emacs/windows/ntemacs.html

=item MicroEMACS

http://members.nbci.com/uemacs/

=item XEmacs

http://www.xemacs.org/Download/index.html

=back

or a vi clone such as

=over 4
=item Elvis

=item Vile
http://vile.cx/

=item Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html

=back

For vi lovers in general, Windows or elsewhere:

nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

=over 4

=item Codewright

http://www.starbase.com/

=item MultiEdit


=item SlickEdit

http://www.slickedit.com/

=back

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that
acts as a development environment of sorts. Perl Composer  
(http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk  
GUI creation.

In addition to an editor/IDE you might be interested in a more  
powerful shell environment for Win32. Your options include  

=over 4

=item Bash

from the Cygwin package (http://sources.redhat.com/cygwin/)

=item Ksh

from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of  
the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

=item Tcsh

ftp://ftp.astron.com/pub/tcsh/, see also  
http://www.primate.wisc.edu/software/csh-tcsh-book/

=item Zsh

ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

=back

MKS and U/WIN are commercial (U/WIN is free for educational and  
research purposes), Cygwin is covered by the GNU Public License (but  
that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all  
contain (in addition to the shells) a comprehensive set of standard  
UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP  
be sure to transfer them in ASCII mode so the ends of lines are  
appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor  
that behaves like a rudimentary IDE. In contrast to the MacPerl Application  
the MPW Perl tool can make use of the MPW Shell itself as an editor (with  
no 32k limit).

=over 4

=item BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

=item Alpha

is an editor, written and extensible in Tcl, that nonetheless has
built in support for several popular markup and programming languages
including Perl and HTML (http://alpha.olm.net/).

=back

Pepper and Pe are programming language sensitive text editors for Mac
OS X and BeOS respectively (http://www.hekkelman.com/).

=head2 Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file,
see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz,
the standard benchmark file for vi emulators. The file runs best with nvi,
the current version of vi out of Berkeley, which incidentally can be built
with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

=head2 Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a
perl-mode.el and support for the Perl debugger built in. These should
come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs",
which contains a cperl-mode that color-codes keywords, provides
context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with C"main'foo"
(single quote), and mess up the indentation and highlighting. You
are probably using C"main::foo" in new Perl code anyway, so this
shouldn't be an issue.

=head2 How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object
module interface to a curses library. A small demo can be found at the
directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep;
this program repeats a command and updates the screen as needed, rendering
B<rep ps axu> similar to B<top>.

=head2 How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit
that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


=head2 How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

=head2 What is undump?

See the next question on "How can I make my Perl program run faster?"

=head2 How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared I<libc.so>, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl
executable, but your Perl programs (and programmers) may thank you for it. See the $<INSTALL> file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the $<INSTALL> file in the source distribution, especially the `Selecting File I/O mechanisms` section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

=head2 How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector—a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's built-in malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the $<INSTALL> file in the source distribution. You can find out whether you are using Perl's malloc by typing C<perl -V:usemymalloc>.

=head2 Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

sub makeone {
  my @a = ( 1 .. 10 );
  return \@a;
}
for $i ( 1 .. 10 ) {
    push @many, makeone();
}

print $many[4][5], "\n";

print "@many\n";

=head2 How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, C<undef $scalar> will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef(ing and/or delete(ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

=head2 How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C B<isn't going to help you> because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address
space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/. A non-free, commercial product, "The Velocity Engine for Perl" (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

=head2 How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you I<can't> take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it.
These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

=head2 How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete
Perl install anyway.

=head2 How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

=head2 How can I get C<#!perl> to work on [MS-DOS,NT,...]?

For OS/2 just use

    extproc perl -S -your_switches

as the first line in C<*.cmd> file (C<-S> due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in C<ALTERNATIVE_SHEBANG> (see the F<INSTALL> file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the C<.pl> extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating C<.pl> with the interpreter, NT people can use: C<SET PATHEXT=%PATHEXT%;.PL> to let them run the program C<install-linux.pl> merely by typing C<install-linux>.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

I<IMPORTANT!>: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

=head2 Can I write useful Perl programs on the command line?

Yes. Read L<perlrun> for more information. Some examples follow.
(These assume standard Unix shell quoting rules.)

    # sum first and last fields
    perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for (@ARGV) {print if -f && -T _} ' *

# remove (most) comments from C program
perl -0777 -pe 's/{A\*.*?\*}/{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time()+30 * $X, @ARGV)' *

# find first unused uid
perl -le 'Si++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e 's!/^/\*!$!man!&&-d&&!$s{$_}++&&push@m,$$_;END{print"@m"}''

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

=head2 Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %%

For example:

# Unix
perl -e 'print "Hello world\n"'

# DOS, etc.
perl -e "print "Hello world\n"

# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)

# VMS
perl -e "print "Hello world\n"

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:

perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

=head2 Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
  http://www.w3.org/Security/Faq/

Web FAQ
  http://www.boutell.com/faq/

CGI FAQ
  http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
  http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
  http://www.w3.org/TR/REC-html40/
  http://www.w3.org/pub/WWW/MarkUp/

CGI Spec
  http://www.w3.org/CGI/

CGI Security FAQ
  http://www.go2net.com/people/paulp/cgi-security/safe/cgi.txt

=head2 Where can I learn about object-oriented Perl programming?

A good place to start is L<perltoot>, and you can use L<perlobj>, L<perlboot>, and L<perlbot> for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or
=head2 Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxstut>,
moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to
call Perl from C, then read L<perlembed>, L<perlcgi>, and
L<perlguts>. Don't forget that you can learn a lot from looking at
how the authors of existing extension modules wrote their code and
solved their problems.

=head2 I've read perlembed, perlguts, etc., but I can't embed perl in
my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If
the tests pass, read the pods again and again and again. If they
fail, see L<perlbug> and send a bug report with the output of
C<make test TEST_VERBOSE=1> along with C<perl -V>.

=head2 When I tried to run my script, I got this message. What does it
mean?

A complete list of Perl's error messages and warnings with explanatory
text can be found in L<perldiag>. You can also use the splain program
(distributed with Perl) to explain the error messages:

    perl program 2>diag.out
    splain [-v] [-p] diag.out

or change your program to explain the messages for you:

    use diagnostics;

or

    use diagnostics -verbose;

=head2 What's MakeMaker?

This module (part of the standard Perl distribution) is designed to
write a Makefile for an extension module from a Makefile.PL. For more
information, see L<ExtUtils::MakeMaker>.

=head1 AUTHOR AND COPYRIGHT

Copyright (c) 1997-1999 Tom Christiansen and Nathan Torkington.
All rights reserved.
When included as an integrated part of the Standard Distribution of Perl or of its documentation (printed or otherwise), this work is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see L<perfaq>.

Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):

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

=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsXML -e "exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class. Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!
L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

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

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<d wheeler@cpan.org>

=back

=cut
Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/DumpAsXML.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
    my($parser, $element_name, $attr_hash_r) = @_; 
    ...
}

sub _handle_element_end {
    my($parser, $element_name, $attr_hash_r) = @_; 
    # NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
    # The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
    # mostly useless. It is documented where "over-*" and "begin" events are
    # documented.
    ...
}

sub _handle_text {
    my($parser, $text) = @_; 
    ...
}

1;

=head1 DESCRIPTION

This document is about using Pod::Simple to write a Pod processor, 
generally a Pod formatter. If you just want to know about using an 
existing Pod formatter, instead see its documentation and see also the 
docs in L<Pod::Simple>.

B<The zeroeth step> in writing a Pod formatter is to make sure that there 
 isn't already a decent one in CPAN. See L<http://search.cpan.org/>, and 
 run a search on the name of the format you want to render to. Also
consider joining the Pod People list
L<http://lists.perl.org/showlist.cgi?name=pod-people> and asking whether
anyone has a formatter for that format -- maybe someone cobbled one
together but just hasn't released it.

B<The first step> in writing a Pod processor is to read L<perlpodspec>,
which contains information on writing a Pod parser (which has been
largely taken care of by Pod::Simple), but also a lot of requirements
and recommendations for writing a formatter.

B<The second step> is to actually learn the format you're planning to
format to -- or at least as much as you need to know to represent Pod,
which probably isn't much.

B<The third step> is to pick which of Pod::Simple's interfaces you want to
use:

=over

=item Pod::Simple

The basic L<Pod::Simple> interface that uses C<_handle_element_start()>,
C<_handle_element_end()> and C<_handle_text()>.

=item Pod::Simple::Methody

The L<Pod::Simple::Methody> interface is event-based, similar to that of
L<HTML::Parser> or L/XML::Parser>'s "Handlers".

=item Pod::Simple::PullParser

L<Pod::Simple::PullParser> provides a token-stream interface, sort of
like L<HTML::TokeParser>'s interface.

=item Pod::Simple::SimpleTree

L<Pod::Simple::SimpleTree> provides a simple tree interface, rather like
L/XML::Parser>'s "Tree" interface. Users familiar with XML handling will
be comfortable with this interface. Users interested in outputting XML,
should look into the modules that produce an XML representation of the
Pod stream, notably L<Pod::Simple::XMLOutStream>; you can feed the output
of such a class to whatever XML parsing system you are most at home with.

=back

B<The last step> is to write your code based on how the events (or tokens,
or tree-nodes, or the XML, or however you're parsing) will map to
constructs in the output format. Also be sure to consider how to escape
text nodes containing arbitrary text, and what to do with text
nodes that represent preformatted text (from verbatim sections).

=head1 Events

TODO intro... mention that events are supplied for implicits, like for
missing ’s

In the following section, we use XML to represent the event structure
associated with a particular construct. That is, TODO

=over

=item C<< $parser->_handle_element_start( I<element_name>, I<attr_hashref> ) >>

=item C<< $parser->_handle_element_end( I<element_name> ) >>

=item C<< $parser->_handle_text( I<text_string> ) >>

=back

TODO describe

=over

=item events with an element_name of Document

Parsing a document produces this event structure:

<Document start_line="543">
...all events...
</Document>

The value of the I<start_line> attribute will be the line number of the first
Pod directive in the document.

If there is no Pod in the given document, then the
event structure will be this:

<Document contentless="1" start_line="543">
</Document>

In that case, the value of the I<start_line> attribute will not be meaningful;
under current implementations, it will probably be the line number of the
last line in the file.

= item events with an element_name of Para

Parsing a plain (non-verbatim, non-directive, non-data) paragraph in a Pod document produces this event structure:

<Para start_line="543">
  ...all events in this paragraph...
</Para>

The value of the I<start_line> attribute will be the line number of the start of the paragraph.

For example, parsing this paragraph of Pod:

The value of the I<start_line> attribute will be the line number of the start of the paragraph.

produces this event structure:

<Para start_line="129">
  The value of the
  <I>
  start_line
  </I>
  attribute will be the line number of the first Pod directive in the document.
</Para>

= item events with an element_name of B, C, F, or I.

Parsing a BE<lt>...E<gt> formatting code (or of course any of its semantically identical syntactic variants S<BE<lt>E<lt> ... E<gt>E<gt>>, or S<BE<lt>E<lt>E<lt>E<lt> ... E<gt>E<gt>E<gt>E<gt>>, etc.) produces this event structure:

<B>
  ...stuff...
</B>

Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a different element name.

If your parser object has been set to accept other formatting codes,
then they will be presented like these B/C/F/I codes -- i.e., without any attributes.

=item events with an element_name of S

Normally, parsing an SE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

  <S>
  ...stuff...
  </S>

However, Pod::Simple (and presumably all derived parsers) offers the C<nbsp_for_S> option which, if enabled, will suppress all S events, and instead change all spaces in the content to non-breaking spaces. This is intended for formatters that output to a format that has no code that means the same as SE<lt>...E<gt>, but which has a code/character that means non-breaking space.

=item events with an element_name of X

Normally, parsing an XE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

  <X>
  ...stuff...
  </X>

However, Pod::Simple (and presumably all derived parsers) offers the C<nix_X_codes> option which, if enabled, will suppress all X events and ignore their content. For formatters/processors that don't use X events, this is presumably quite useful.

=item events with an element_name of L

Because the LE<lt>...E<gt> is the most complex construct in the language, it should not surprise you that the events it generates are the most complex in the language. Most of complexity is hidden away in the attribute values, so for those of you writing a Pod formatter that produces a non-hypertextual format, you can just ignore the attributes and treat an L event structure like a formatting element that (presumably) doesn't actually produce a change in formatting. That is, the content of the L event structure (as opposed to its attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.
When a LE<lt>I<some_url>E<gt> code is parsed, it produces this event structure:

```plaintext
<L content-implicit="yes" raw="that_url" to="that_url" type="url"> that_url </L>
```

The C<type="url"> attribute is always specified for this type of L code.

For example, this Pod source:

```perl
L<http://www.perl.com/CPAN/authors/>
```

produces this event structure:

```plaintext
<L content-implicit="yes" raw="http://www.perl.com/CPAN/authors/" to="http://www.perl.com/CPAN/authors/" type="url"> http://www.perl.com/CPAN/authors/ </L>
```

When a LE<lt>I<manpage(section)>E<gt> code is parsed (and these are fairly rare and not terribly useful), it produces this event structure:

```plaintext
<L content-implicit="yes" raw="manpage(section)" to="manpage(section)" type="man"> manpage(section) </L>
```

The C<type="man"> attribute is always specified for this type of L code.

For example, this Pod source:

```perl
L<crontab(5)>
```

produces this event structure:

```plaintext
<L content-implicit="yes" raw="crontab(5)" to="crontab(5)" type="man"> crontab(5) </L>
```

In the rare cases where a man page link has a section specified, that text appears in a I<section> attribute. For example, this Pod source:

```perl
L<crontab(5)/"ENVIRONMENT">
```

will produce this event structure:
In the rare case where the Pod document has code like
LElt;Ilt;sometextgt;lt;manpage(section)gt;Egt;, then the Ilt;sometextgt; will appear
as the content of the element, the Ilt;manpage(section)gt; text will appear
only as the value of the Ilt;togt; attribute, and there will be no
Clt;content-implicit="yes"gt; attribute (whose presence means that the Pod parser
had to infer what text should appear as the link text -- as opposed to
cases where that attribute is absent, which means that the Pod parser did
lt;notgt; have to infer the link text, because that L code explicitly specified
some link text.)

For example, this Pod source:

Llt;hell itself!gt;lt;crontab(5)gt;

will produce this event structure:

lt;L raw="hell itself!"to="crontab(5)" type="man">hell itself!lt;/Lgt;
is to be found in the content of the element (and not the attributes), just as with the LE<lt>1<sometext>|I<manpage(section)>E<gt> case discussed above. For example, this Pod source:

L<Perl Error Messages|perldiag>

produces this event structure:

<L raw="Perl Error Messages|perldiag" to="perldiag" type="pod">
Perl Error Messages
</L>

In cases of links to a section in the current Pod document, there is a I<section> attribute instead of a I<to> attribute. For example, this Pod source:

L</"Member Data">

produces this event structure:

<L content-implicit="yes" raw="/&quot;Member Data&quot;" section="Member Data" type="pod">
"Member Data"
</L>

As another example, this Pod source:

L<the various attributes|"Member Data">

produces this event structure:

<L raw="the various attributes|/&quot;Member Data&quot;" section="Member Data" type="pod">
the various attributes
</L>

In cases of links to a section in a different Pod document, there are both a I<section> attribute and a L<to> attribute. For example, this Pod source:

L<perlsyn|"Basic BLOCKs and Switch Statements">

produces this event structure:

<L content-implicit="yes" raw="perlsyn|&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>

As another example, this Pod source:
produces this event structure:

```
<SWITCH statements

Incidentally, note that we do not distinguish between these syntaxes:

```

That is, they all produce the same event structure (for the most part), namely:

```
The I<raw> attribute depends on what the raw content of the C<LE<lt>E<gt>> is, so that is why the event structure is the same "for the most part".

If you have not guessed it yet, the I<raw> attribute contains the raw, original, unescaped content of the C<LE<lt>E<gt>> formatting code. In addition to the examples above, take notice of the following event structure produced by the following C<LE<lt>E<gt>> formatting code.

```
Specifically, notice that the formatting codes are present and unescaped in I<raw>.

There is a known bug in the I<raw> attribute where any surrounding whitespace is condensed into a single ". For example, given LE<60>   linkE<62>, I<raw> will be " link".

=item events with an element_name of E or Z

While there are Pod codes EE<lt>...E<gt> and ZE<lt>E<gt>, these I<do not> produce any E or Z events -- that is, there are no such
events as E or Z.

=item events with an element_name of Verbatim

When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

```
<Verbatim start_line="543" xml:space="preserve">
 ...text...
 </Verbatim>
```

The value of the I<start_line> attribute will be the line number of the first line of this verbatim block. The I<xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element_name of head1 .. head4

When a "=head1 ..." directive is parsed, it produces this event structure:

```
<head1>
 ...stuff...
 </head1>
```

For example, a directive consisting of this:

```
=head1 Options to C<new> et al.
```

will produce this event structure:

```
<head1 start_line="543">
 Options to
 <C>
  new
 </C>
 et al.
 </head1>
```

"=head2" through "=head4" directives are the same, except for the element names in the event structure.

=item events with an element_name of encoding

In the default case, the events corresponding to C<encoding> directives are not emitted. They are emitted if C<keep_encoding_directive> is true.
In that case they produce event structures like
L</"events with an element_name of head1 .. head4"> above.

=item events with an element_name of over-bullet

When an "=over ... Z</="block is parsed where the items are
a bulleted list, it will produce this event structure:

<over-bullet indent="4" start_line="543">
<item-bullet start_line="545">
 ...Stuff...
</item-bullet>
...more item-bullets...
</over-bullet fake-closer="1">

The attribute I<fake-closer> is only present if it is a true value; it is not
present if it is a false value. It is shown in the above example to illustrate
where the attribute is (in the B<closing> tag). It signifies that the C</over>
did not have a matching C</back>, and thus Pod::Simple had to create a fake
closer.

For example, this Pod source:

=over
=item *
Something
=back

Would produce an event structure that does B<not> have the I<fake-closer>
attribute, whereas this Pod source:

=over
=item *

Gasp! An unclosed =over block!

would. The rest of the over-* examples will not demonstrate this attribute,
but they all can have it. See L<Pod::Checker>'s source for an example of this
attribute being used.

The value of the I<indent> attribute is whatever value is after the
"=over" directive, as in "=over 8". If no such value is specified
in the directive, then the I<indent> attribute has the value "4".
For example, this Pod source:

```plaintext
=over
= item *
Stuff
=item *
Bar <i>baz</i>!
=back
```

produces this event structure:

```xml
<over-bullet indent="4" start_line="10">
  <item-bullet start_line="12">
    Stuff
  </item-bullet>
  <item-bullet start_line="14">
    Bar <i>baz</i>!
  </item-bullet>
</over-bullet>
```

=item events with an element_name of over-number

When an "=over ... Z<=back" block is parsed where the items are a numbered list, it will produce this event structure:

```xml
<over-number indent="4" start_line="543">
  <item-number number="1" start_line="545">
    ...Stuff...
  </item-number>
  ...more item-number...
</over-bullet>
```

This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore (since, for example, there's no need for it in HTML when producing an "<UL><LI>...</LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should!), whatever numbers it has will be ignored (with the correct values being put in the I<number> attributes), and an error
message might be issued to the user.

=item events with an element_name of over-text

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<=back" block is parsed where the items are a list of text "subheadings", it will produce this event structure:

```xml
<over-text indent="4" start_line="543">
  <item-text>
    ...stuff...
  </item-text>
  ...stuff (generally Para or Verbatim elements)...
  <item-text>
    ...more item-text and/or stuff...
  </over-text>
```

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

```plaintext
=over
=item Foo

Stuff

=item Bar I<baz>!

Quux

=back
```

produces this event structure:

```xml
<over-text indent="4" start_line="20">
  <item-text start_line="22">
    Foo
  </item-text>
  <Para start_line="24">
    Stuff
  </Para>
  <item-text start_line="26">
    Bar
    <I>
      baz
    </I>
  </item-text>
```

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z=back" block is parsed where there are no items, it will produce this event structure:

```
<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...
</over-block>
```

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

```
=over
For cutting off our trade with all parts of the world
For transporting us beyond seas to be tried for pretended offenses
He is at this time transporting large armies of foreign mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of cruelty and perfidy scarcely paralleled in the most barbarous ages, and totally unworthy the head of a civilized nation.
=back
```

will produce this event structure:

```
<over-block indent="4" start_line="2">
<Para start_line="4">
For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">
He is at this time transporting large armies of [...more text...]
```
=item events with an element_name of over-empty

B<Note: These events are only triggered if C<parse_empty_lists()> is set to a true value.>

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there is no content, it will produce this event structure:

<over-empty indent="4" start_line="543"/>
<over-empty>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over
=over
=back
=back

will produce this event structure:

<over-block indent="4" start_line="1"/>
<over-empty indent="4" start_line="3"/>
</over-empty>
</over-block>

Note that the outer C<=over> is a block because it has no C<=item>s but still has content: the inner C<=over>. The inner C<=over>, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet

See L</"events with an element_name of over-bullet">, above.

=item events with an element_name of item-number

See L</"events with an element_name of over-number">, above.

=item events with an element_name of item-text
Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the accept_* methods) are for declaring the capabilities of your parser, notably what sections it's interested in, what extra codes it accepts beyond the ones described in the perlpod.

As the parser sees sections like:

```
$parser->accept_targets('html')
```

or

```
$parser->accept_targets('image')
```

...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

If you want to process all sections, even if they're not targeted for you, call this before you start parsing:

```
$parser->accept_targets('*');
```
This is like accept_targets, except that it specifies also that the content of sections for this target should be treated as Pod text even if the target name in "=for I<targetname>" doesn't start with a ":".

At time of writing, I don't think you'll need to use this.

This tells the parser that you accept additional formatting codes, beyond just the standard ones (I B C L F S X, plus the two weird ones you don't actually see in the parse tree, Z and E). For example, to also accept codes "N", "R", and "W":

```
$parser->accept_codes( qw( N R W ) );
```

B<TODO: document how this interacts with =extend, and long element names>

In the unlikely situation that you need to tell the parser that you will accept additional directives (="foo" things), you need to first set the parser to treat its content as data (i.e., not really processed at all), or as verbatim (mostly just expanding tabs), or as processed text (parsing formatting codes like BE<lt>...E<gt>).

For example, to accept a new directive "=method", you'd presumably use:

```
$parser->accept_directive_as_processed("method");
```

so that you could have Pod lines like:

```
=method I<$whatever> thing B<um>
```

Making up your own directives breaks compatibility with other Pod formatters, in a way that using "=for I<target> ...") lines doesn't; however, you may find this useful if you're making a Pod superset format where you don't need to worry about compatibility.
Setting this attribute to a true value (and by default it is false) will turn "SE<lt>...E<gt>" sequences into sequences of words separated by C\xA0 (non-breaking space) characters. For example, it will take this:

I like S<Dutch apple pie>, don't you?

and treat it as if it were:

I like DutchE\nbsp;appleE\nbsp;pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

This returns a string reporting the $VERSION value from your module (and its classname) as well as the $VERSION value of Pod::Simple. Note that L<perlpspec> requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

print OUT "<!-- \n", $parser->version_report, "\n -->";

This returns the count of Pod paragraphs seen so far.

This is the current line number being parsed. But you might find the "line_number" event attribute more accurate, when it is present.

This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>" sequences in the document being parsed. Many formats don't actually use the content of these codes, so have no reason to process them.
This attribute, when set to a true value (it is false by default) will keep `encoding` and its content in the event structure. Most formats don't actually need to process the content of an `encoding` directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive content.

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

```
I just LOVE Z<>hotE<32>apple pie!
```

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have `merge_text` on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is `undef`, meaning that no code should be called. If you provide a routine, it should start out like this:

```
sub get_code_line {  # or whatever you'll call it
    my($line, $line_number, $parser) = @_;
    ...
}
```

Note, however, that sometimes the Pod events aren't processed in exactly the same order as the code lines are -- i.e., if you have a file with Pod, then code, then more Pod, sometimes the code will be processed (via whatever you have `code_handler` call) before the all of the preceding Pod has been processed.
This is just like the code_handler attribute, except that it's for
"=cut" lines, not code lines. The same caveats apply. "=cut" lines are
unlikely to be interesting, but this is included for completeness.

=item C<< $parser->pod_handler( I<CODE_REF> ) >>

This is just like the code_handler attribute, except that it's for
"=pod" lines, not code lines. The same caveats apply. "=pod" lines are
unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whiteline_handler( I<CODE_REF> ) >>

This is just like the code_handler attribute, except that it's for
lines that are seemingly blank but have whitespace (" ") and/or "\t"
on them, not code lines. The same caveats apply. These lines are unlikely to be
interesting, but this is included for completeness.

=item C<< $parser->whine( I<linenumber>, I<complaint string> ) >>

This notes a problem in the Pod, which will be reported in the "Pod
Errors" section of the document and/or sent to STDERR, depending on the
values of the attributes C<no_whining>, C<no_errata_section>, and
C<complain_stderr>.

=item C<< $parser->scream( I<linenumber>, I<complaint string> ) >>

This notes an error like C<whine> does, except that it is not
suppressible with C<no_whining>. This should be used only for very
serious errors.

=item C<< $parser->source_dead(1) >>

This aborts parsing of the current document, by switching on the flag
that indicates that EOF has been seen. In particularly drastic cases,
you might want to do this. It's rather nicer than just calling
C<die>!

=item C<< $parser->hide_line_numbers( I<SOMEVALUE> ) >>

Some subclasses that indiscriminately dump event attributes (well,
except for ones beginning with "~") can use this object attribute for
refraining to dump the "start_line" attribute.

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>
This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints are reported. How they get reported depends on the values of the attributes \texttt{no\_errata\_section} and \texttt{complain\_stderr}.

\begin{verbatim}
=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>
\end{verbatim}

This attribute, if set to true, will suppress generation of an errata section. The default value is false -- i.e., an errata section will be generated.

\begin{verbatim}
=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>
\end{verbatim}

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

\begin{verbatim}
=item C<< $parser->bare_output( I<SOMEVALUE> ) >>
\end{verbatim}

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "$<html><head><title>...</title><body>...</</body></html>" prologue and the "$</body></html>" epilogue.

If you want to set this to true, you should probably also set \texttt{no\_whining} or at least \texttt{no\_errata\_section} to true.

\begin{verbatim}
=item C<< $parser->preserve_whitespace( I<SOMEVALUE> ) >>
\end{verbatim}

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser. This is primarily useful for output formats that treat whitespace as significant (such as text or *roff, but not HTML).

\begin{verbatim}
=item C<< $parser->parse_empty_lists( I<SOMEVALUE> ) >>
\end{verbatim}

If this attribute is set to true, the parser will not ignore empty \texttt{<over>/<back>} blocks. The type of \texttt{<over>} will be \texttt{<empty>}, documented above, \texttt{<events with an element\_name of over-empty>}. 

=back

=head1 SEE ALSO

L<Pod::Simple> -- event-based Pod-parsing framework
L<Pod::Simple::Methody> -- like Pod::Simple, but each sort of event
calls its own method (like C<start_head3>)

L<Pod::Simple::PullParser> -- a Pod-parsing framework like Pod::Simple,
but with a token-stream interface

L<Pod::Simple::SimpleTree> -- a Pod-parsing framework like Pod::Simple,
but with a tree interface

L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads
documents, and then makes a plaintext report of any errors found in the
document

L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily
indented XML, showing each event on its own line

L<Pod::Simple::XMLOutStream> -- dumps a Pod document as XML (without
introducing extra whitespace as Pod::Simple::DumpAsXML does).

L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily
indented text, showing each event on its own line

L<Pod::Simple::LinkSection> -- class for objects representing the values
of the TODO and TODO attributes of LE<lt>...E<gt> elements

L<Pod::Escapes> -- the module that Pod::Simple uses for evaluating
EE<lt>...E<gt> content

L<Pod::Simple::Text> -- a simple plaintext formatter for Pod

L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but
makes no effort for indent or wrap the text being formatted

L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspeckperlpodspeck>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

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L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=for notes

Hm, my old podchecker version (1.2) says:
*** WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod
*** WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod

Yes, L<...> is hard.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
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=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.
You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back
You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserEndToken->new( I<tagname> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=over
Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/PullParserEndToken.pm
No license file was found, but licenses were detected in source scan.

# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<<<Stuff/foo> >>, and "bar" for C<< LZ<<<Stuff/bI<ar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet @treelet_object. To wit:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper(S_[1]{'section'}) }
__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"

Output:
$VAR1 = bless( [ 
  
  
  ], 'Pod::Simple::LinkSection' ),

'baz'
 ], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:

% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper( " . $_[1]{'section'} ) } 
__PACKAGE__->new->parse_string_document( '=head1 L<Foo/bI<ar>baz>>')
"

Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT

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=cut

Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-
LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-
3.35/lib/Pod/Simple/LinkSection.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might
get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->tagname

==cut
This returns the tagname for this start-token object. For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object. You probably won't need to do this.

=item $token->tag(…)

A shortcut for $token->tagname(…)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<><Foo/"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<< Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> ) >>
=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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

=head1 NAME
Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS
use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION
This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS
Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug ($x, I<somenum>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't
be a constant sub anymore, and so Pod::Simple (et al) won't compile with
constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () {5} }  # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0);  # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }  # or some integer
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


=head1 SUPPORT

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Pod::Simple is maintained by:

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=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C.dwheeler@cpan.org>
=back
=cut

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=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \"exit Pod::Simple::RTF->filter(shift)->any_errata_seen\" \thingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L.Pod::Simple and inherits all its methods.
FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

$parser->head1_halfpoint_size( I<halfpoint_integer> );
$parser->head2_halfpoint_size( I<halfpoint_integer> );
$parser->head3_halfpoint_size( I<halfpoint_integer> );
$parser->head4_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

$parser->codeblock_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

$parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

$parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

$parser->no_proofing_exemptions( I<true_or_false> );

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

$parser->doc_lang( I<microsoft_decimal_language_code> )

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).
Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

1033  US English
2057  UK English
3081  Australia English
4105  Canada English
1034  Spain Spanish
2058  Mexico Spanish
1031  Germany German
1036  France French
3084  Canada French
1035  Finnish
1044  Norwegian (Bokmal)
2068  Norwegian (Nynorsk)

=back

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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Found in path(s):

* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/RTF.pm

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sub dump { ']' . _esc( @{ $_[0] } ) . ']' }

# JUNK:

sub _esc {
    return " unless @_;    
    my @out;
    foreach my $in (@_) {
        push @out, "," . $in . ",";
        $out[-1] =~ s/(^[^\-\:\\\\\<\:\"\"]|=\?\!\+\[\[\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\}\n

__END__
=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser (or a subclass)...

while(my $token = $parser->get_token) {
    $DEBUG and print STDERR "Token: ", $token->dump, "\n";
    if($token->is_start) {
        ...access $token->tagname, $token->attr, etc...
    } elsif($token->is_text) {
        ...access $token->text, $token->text_r, etc...
    } elsif($token->is_end) {
        ...access $token->tagname...
    }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start
This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

    while(my $token = $parser->get_token) {
        $DEBUG and print STDERR "Token: ", $token->dump, ",n";
        ...
    }

=back

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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=head1 Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

=head2 Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

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=item * David E. Wheeler <dwheeler@cpan.org>

=item * Marc Green <marcgreen@cpan.org>

=back

=cut
NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics: perldata, perlvar, perlsyn, perllop, perls
- Execution: perlrun, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobj, perltie
- Data Structures: perlref, perlfol, perlself
- Modules: perlmod, perlmodlib, perls
- Regexes: perlre, perlfunc, perllop, perll
- Moving to perl5: perlop, perl
- Linking w/C: perlxstut, perlxs, perlcall, perl guts, perlembed

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty” program, like this:

``perl -de 42``

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

``open(FH, "> /etc/cantwrite")``
``or die "Couldn't write to /etc/cantwrite: $!");``

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.
How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use
Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code,
while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```perl
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ ;}
        return @a
    }
});
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the
load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
    for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
    map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the
differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?
The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the
5.005 release), can be used to generate cross-reference reports for Perl programs.

```
perl -MO=Xref[,OPTIONS] scriptname.plx
```

Is there a pretty-printer (formatter) for Perl?
There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the
scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best
to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting
your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or
newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less
programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```ini
set ai sw=4
map! ^O { ^M } ^[O^T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert
mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last
one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-
local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this
using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying
for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed
output of documents.
Is there a ctags for Perl?
There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?
Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:
CodeMagicCD
http://www.codemagiccd.com/

Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).

visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

Vile
http://vile.cx/

Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:
Codewith
http://www.starbase.com/
MultiEdit
SlickEdit
http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment
(http://www.research.att.com/sw/tools/uwin/)
Tcsh
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes). Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.alm.net/).

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see
http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz , the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on ``How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book ''Programming Pearls'' (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the ``Selecting File I/O mechanisms'' section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in
the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}
for $i ( 1 .. 10 ) {
    push @many, makeone();
}
print $many[4][5], "\n";
print "@many\n";
```

How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?
Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.
With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/
With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.
Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

A non-free, commercial product, "$The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?
Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".
First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like “This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.” We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.
Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.

If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.
Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
  extproc perl -S -your_switches
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source
distribution for more information).
The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl
extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from
the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the
Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET
PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.
Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the
Perl application.
IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin
directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take
the time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's{/\*.*?\*/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
echo $PATH | perl -nl -072 -e '
s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
OK, the last one was actually an Obfuscated Perl Contest entry. :-)
Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change singlequotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %%.
For example:
# Unix
perl -e 'print "Hello world\n"'
# DOS, etc.
perl -e "print \"Hello world\n\""
# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)
# VMS
perl -e "print ""Hello world\n"""
The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control

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characters.
Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-) [Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
http://www.w3.org/Security/Faq/
Web FAQ
http://www.boutell.com/faq/
CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html
HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/

Where can I learn about CGI Security FAQ?
http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, percall, and perl guts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

erl program 2>diag.out
splain [-v] [-p] diag.out
or change your program to explain the messages for you:
use diagnostics;
or
use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.
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Found in path(s):
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=head1 SEE ALSO
L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT
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=head1 ACKNOWLEDGEMENTS
Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the
site for Perl module links.

=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C.dwheeler@cpan.org

=back

=cut

Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/XHTML.pm
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=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->text
This returns the text that this token holds. For example, parsing
CZ<>foo<foo> will return a C start-token, a text-token, and a C end-token. And
if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need
to do this.

=item $token->text_r()

This returns a scalar reference to the string that this token holds.
This can be useful if you don't want to memory-copy the potentially
large text value (well, as large as a paragraph or a verbatim block)
as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( ${  $token->text_r  } ) {  # Aliases it with $_ !
    s/ The / the /g; # just for example

    if( 'A' eq chr(65) ) {  # (if in an ASCII world)
        tr/\xA0/ /;
        tr/\xAD//d;
    }
}

...or however you want to alter the value...
(Note that starting with Perl v5.8, you can use, e.g.,

    my $nbsp = chr utf8::unicode_to_native(0xA0);
    s/$nbsp/ /g;

    to handle the above regardless if it's an ASCII world or not)
}

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>
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=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \ 
thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-
3.35/lib/Pod/Simple/XMLOutStream.pm

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=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS
Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parsers_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<SomeClass> is a subclass of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>`s output will be written to.
You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
$parser->output_fh(*TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( $somestring ); >>
This sets the string that $parser’s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that $parser object, according to however $parser’s class works, and according to whatever parser options you have set up for this $parser object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like parse_file except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>

This processes the lines in @lines (where each list item must be a defined value, and must contain exactly one line of content -- so no items like C<"foo
bar"> are allowed). The final undef is used to indicate the end of document being parsed.

The other parser_whatever methods are meant to be called only once per $parser object; but parse_lines can be called as many times per $parser object as you want, as long as the last call (and only the last call) ends with an undef value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

=item C<< I<SomeClass>-filter( I<$filename> ); >>

=item C<< I<SomeClass>-filter( I<*INPUT_FH> ); >>

=item C<< I<SomeClass>-filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:
Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with `C<$value = $parser->I<attribute> >>` and set the attribute's value with `C<$parser->I<attribute>(I<newvalue>) >>`. For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=item C<< $parser->parse_characters( I<SOMEVALUE> ) >>

The Pod parser normally expects to read octets and to convert those octets to characters based on the `C]<=encoding> declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any `C<=encoding> command and to skip all the code paths involving decoding octets.

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.
If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting complain_stderr also sets no_errata_section.

source_filename

This returns the filename that this parser object was set to read from.

doc_has_started

This returns true if parser has read from a source, and has seen Pod content in it.

source_dead

This returns true if parser has read from a source, and come to the end of that source.

strip_verbatim_indent

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

$parser->strip_verbatim_indent(' ');

For tab indents, you'd use a tab character:

$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be
executed with one argument, an array reference of all the lines in the
verbatim block, and should return the value to be stripped from each line. For
example, if you decide that you're fine to use the first line of the verbatim
block to set the standard for indentation of the rest of the block, you can
look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent=sub {  
  my $lines = shift;  
  (my $indent = $lines->[0]) =~ s/S.*//;  
  return $indent;  
};

If you'd rather treat each line individually, you can do that, too, by just
transforming them in-place in the code reference and returning undef. Say
that you don't want any lines indented. You can do something like this:

$new->strip_verbatim_indent=sub {  
  my $lines = shift;  
  sub { s/^\s+// for @$lines;  
    return undef;  
  };  
};

=back
=head1 TERTIARY METHODS

=over

=item C<< $parser->abandon_output_fh() >>  
abandon_output_fh

Cancel output to the file handle. Any POD read by the C<$parser> is not
efected.

=item C<< $parser->abandon_output_string() >>  
abandon_output_string

Cancel output to the output string. Any POD read by the C<$parser> is not
efected.

=item C<< $parser->accept_code( @codes ) >>  
accept_code

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>  
accept_codes

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be
used to implement user-defined codes.

=item C<< $parser->accept Directive_as_data( @directives ) >>  
accept Directive_as_data


Allows \$parser to accept a list of directives for data paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is one delimited by \$begin=for=end directives. This can be used to implement user-defined directives.

=item C<< \$parser->accept_directive_as_processed( @directives ) >>

Allows \$parser to accept a list of directives for processed paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A processed paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

=item C<< \$parser->accept_directive_as_verbatim( @directives ) >>

Allows \$parser to accept a list of directives for L<perlpod/Verbatim Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.

=item C<< \$parser->accept_target( @targets ) >>

Alias for L<< accept_targets >>.

=item C<< \$parser->accept_target_as_text( @targets ) >>

Alias for L<< accept_targets_as_text >>.

=item C<< \$parser->accept_targets( @targets ) >>

Accepts targets for \$begin=for=end sections of the POD.

=item C<< \$parser->accept_targets_as_text( @targets ) >>

Accepts targets for \$begin=for=end sections that should be parsed as POD. For details, see L<< perlpodspar/About Data Paragraphs >>.

=item C<< \$parser->any_errata_seen() >>

Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if \$parser->any_errata_seen();

=item C<< \$parser->errata_seen() >>

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number and the value is an array reference of the errors for that line.
if ( $parser->any_errata_seen() ) {
    $logger->log( $parser->errata_seen() );
}

=item C<< $parser->detected_encoding() >>X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>X<parse_from_file>

Parses from C<$source> file to C<$to> file. Similar to L<< Pod::Parser/parse_from_file >>.

=item C<< $parser->scream( @error_messages ) >>X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >>X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >>X<unaccept_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >>X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >>X<unaccept_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >>X<unaccept_target>

Alias for L<< unaccept_targets >>.

=item C<< $parser->unaccept_targets( @targets ) >>X<unaccept_targets>
Removes C<< @targets >> as valid targets for the parse.

=item C<< $parser->version_report() >>

Returns a string describing the version.

=item C<< $parser->whine( @error_messages ) >>

Log an error unless C<< $parser->no_whining( TRUE ); >>.

=head1 ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the octets into Perl's internal character string representation using the value of the C<<encoding> declaration in the POD source.

If the POD source does not include an C<<encoding> declaration, the parser will attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining the first non-ASCII bytes and applying the heuristic described in L<perlpodspec>. (If the POD source contains only ASCII bytes, the encoding is assumed to be ASCII.)

If you set the C<<parse_characters> option to a true value the parser will expect characters rather than octets; will ignore any C<<encoding>; and will make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

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

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <dwheeler@cpan.org>
=back

Documentation has been contributed by:

=over
=item * Gabor Szabo <szabgab@gmail.com>
=item * Shawn H Corey <SHCOREY at cpan.org>
=back

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_; ...
}

sub start_head1 {
    my($self, $attrs) = @_; ...
}
sub end_head1 {
    my($self) = @_; ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of
interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides
Pod::Simple's _handle_element_start, _handle_text, and
_handle_element_end methods so that parser events are turned into method
calls. (Otherwise, this is a subclass of L<&Pod::Simple> and inherits all
its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does
this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( %attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" ) if $parser->can('handle_text');
$parser->end_head1() if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=over

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=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheelar@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/Methody.pm
No license file was found, but licenses were detected in source scan.

# ChangeLog for Pod::Simple dist
#---------------------------------------------------------------------------
* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Needed to 'make manifest' before uploading to CPAN. No changes beyond version bump

* Release 3.35
2016-11-29 Karl Williamson <khw@cpan.org>
Stabilize t/search50.t. Thanks to rurban for the patch!
Turn off utf8 warnings when trying to see if a file is UTF-8 or not.

* Release 3.33
No changes since 3.32.

2015-11-02 Marc Green <marcgreen@cpan.org>
* Release 3.32
Fixed failing tests on Windows. Thanks to A. Sinan Unur for the patch!

Switched debugging output from STDOUT to STDERR. Should rarely be used, but modules that do depend on debugging output might need to change how they handle it. Patch from Karl Williamson (GitHub Pull Request #76).

Added errata_seen() to make POD errors easily accessible. Thanks to Sean Zellmer for the pull request!
2015-08-23  Marc Green <marcgreen@cpan.org>
* Release 3.31
No changes since 3.30_1.

2015-07-19  Marc Green <marcgreen@cpan.org>
* Release 3.30_1
Simplified the detection of case-insensitivity in Pod::Simple::Search.

Fixed "Use of uninitialized value $1 in lc" warning in
Pod::Simple::Search.

If @INC includes the current directory symbol, '.', the survey() method of Pod::Simple::Search no longer excludes it from its list of directories to search. Instead, The survey() and find() methods now both exclude duplicate directories from @INC (RT #102344).

Moved source repository and updated links to new perl-pod GitHub organization: https://github.com/perl-pod/pod-simple.

Improved repository links and added GitHub issue tracking link to the distribution metadata.

Switched from File::Spec's catdir to catfile for path names, to fix failures on VMS. Also now use Unix path semantics where they're not required to be platform-specific. Thanks to Craig A. Berry for the patch (RT #105511).

Improved the example use of the 'html_encode_chars()' method in the Pod::Simple::XHTML documentation. Patch from Randy Stauner.

2015-02-23  David E. Wheeler <david@justatheory.org>
* Release 3.30
No changes since 3.29_6.

2015-02-19  David E. Wheeler <david@justatheory.org>
* Release 3.29_6
The survey() method in Pod::Simple::Search now ignores duplicate files with varying lettercasing on case-insensitive file systems. This allows

When pondering files in a given directory, the survey() method in Pod::Simple::Search now prefers files with extensions in the following order: no extension, .pod, .pm, .plx, .pl.

The find() method in Pod::Simple::Search now records the './pod' subdirectory of each directory it considers in such a way as to preserve its case on the file system.
The `find()` method in Pod::Simple::Search now tries harder to find the proper file on case-insensitive file systems when searching for modules starting with "Pod". For example, when searching for `Pod::Perldoc` it now returns a file ending in `Pod/Perldoc.pm` instead of `Pod/perldoc.pod`, as the latter is actually the documentation for the 'perldoc' program.

2015-02-17 David E. Wheeler <david@justatheory.org>
* Release 3.29_5
No changes except that the release tarball should no longer be empty.

2015-02-16 David E. Wheeler <david@justatheory.org>
* Release 3.29_4
Removed "Caveats" from the docs. Pod::Simple has been out of beta for years.

The `survey()` method in Pod::Simple::Search no longer assumes that files ending in '.pod' are actually Pod. Like .pm and .pl files, .pod files must contain at least one valid POD command, as documented. This brings the behavior in line with `find()`, which already required that .pod files contain Pod.

The survey() method in Pod::Simple::Search now prefers files ending in .pod over those ending in .pm, and .pm over those ending in .pl, when it finds duplicate pod files for a given name.

2015-02-11 David E. Wheeler <david@justatheory.org>
* Release 3.29_3
Tightened up the first pass at recognizing a Pod command so that fewer invalid Pod lines will be recognized. Suggested by Randy Stauner.

Fixed bug where Pod::Simple would attempt to call utf8::unicode_to_native on Perl 5.6, where that function does not exist.

Typos and minor wordsmithing changes in Pod::Simple::Subclassing, thanks to Randy Stauner.

The Pod::Simple::Search survey() and `find()` methods now use the same code for determining @INC directories to search. The only difference is that `find()` also includes $Config::Config{'scriptdir'}.

2015-01-13 David E. Wheeler <david@justatheory.org>
* Release 3.29
NOTE: This will be the last release of Pod::Simple to support versions of Perl earlier than 5.6.
Fixed test failure for unsupported encoding on Perl 5.6.

Removed unnecessary dependency on constant. Reported by Petr Pisar (RT #85578).

Many documentation and comment typos fixed by David Steinbrunner.

Fixed issue when an encoding is declared via an ‘=encoding’ directive *after* Pod::Simple has already detected an encoding. Thanks to Graham Knop for the patch and Patrice Dumas for the tests.

Added ‘>&STDERR’ as an output to better emulate Pod::Parser::parse_from_file(). Florent Angly.

Tidied the description of the different Pod::Simple interfaces, with greater emphasis on the four different steps to subclassing. Florent Angly.

Added the ‘top_anchor’ attribute to Pod::Simple::HTML, to allow specification of a custom top anchor format. Gabor Szabo.

Fixed the text formatter to properly set the Text::Wrap overflow policy. Thanks to Nigel Metheringham for the fix!

Fixed mis-matched quotation marks when adding JavaScript elements to the XHTML output. Patch from jonathancast.

Fixed issues on EBCDIC. Patch from Karl Williamson (GitHub Pull Request #58).

Fixed bug where the value passed to Pod::Simple::XHTML’s html_css() method would be output twice. Thanks to Andrew Johnson for the report (RT #99303).

Documented the ‘recurse’ attribute of Pod::Simple::Search. Thanks to Jim Keenan for the report (RT #91886).

An error is no longer thrown when ‘=encoding’ directives are found on subsequent lines. Instead, we now log a an error message, “Cannot have multiple =encoding directives” (RT #91757).

The HTML and XHTML formatters now do a better job of preserving lines in ‘begin html’ blocks. Fixes a bug that dates from 2002 (Perl RT#9385, CPAN RT #91851).

2013-05-04   David E. Wheeler <david@justatheory.org>
* Release 3.28
Removed use of 'done_testing' in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/xhtml01.t when HTML::Entities is not installed.

2013-05-03   David E. Wheeler <david@justatheory.org>  
* Release 3.27

Added new warnings as defined by Pod::Checker, thanks to RJBS:
+ "|=over" without "|=back"
+ "L<>" starts or ends with whitespace
+ raw "|" or "/" in "L<text|link>" text

Added ->keep_encodingDirective, which is false by default, to prevent formatters from emitting a document's '=encoding' directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the DumpAsText and DumpAsXML formats set it to true. Patch from Patrice Dumas.

2013-02-27   David E. Wheeler <david@justatheory.org>  
* Release 3.26

Fixed another test script to skip all tests when Encode is not installed.

Added 'encoding()' and 'detected_encoding()' to return the current encoding and the encoding actually to decode the input file. The value from "|=encoding" is also now kept in the output tree. Patch from Patrice Dumas (RT #74390).

2013-02-16   David E. Wheeler <david@justatheory.org>  
* Release 3.25

Improved the warning when "|=item" types mismatch within one "|=over"/"|=back" block.

2013-02-14   David E. Wheeler <david@justatheory.org>  
* Release 3.24

Fixed corner case bug for unlikely scenario in which non-UTF-8 text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers for the patch.

Fixed test failure on Perl 5.6.2.
Changed the default installation location from "perl" to "site" on 5.12 and higher, since as of that version ofPerl, dual-life modules no longer need to be installed in "perl" to replace in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This reduces the time Pod::Simple takes to build the core Perl documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for the patch!

Added a warning when "=item" types mismatch within one "=over"/"=back" block. Marc Green/Google Summer of Code, with assist from RJBS.

Fixed regression introduced in 3.22 in which "C< >" tags were incorrectly treated as verbatim text in table of contents items emitted by Pod::Simple::XHTML. Thanks to Randy Stauner for the report and to Thomas Sibley for the fix!

Loosened up the matching of "L< >" tags for man pages so that they allow names with dots, underscores, and any other characters other than "/", just so long as they end in '[(\[\-a-zA-Z0-9\]+\[\)]\]'. Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 & RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report (RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat" maps to "pre", and "teletype" maps to "tt". Suggested by Robert Boisvert (RT #79201).

"X< >" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14 David E. Wheeler <david@justatheory.org>
* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for
the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C< >" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.

Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse_characters()" option to specify that strings to are already decoded from octets into characters. Grant McLean.

2012-05-27    David E. Wheeler <david@justatheory.org>  
* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an "=encoding" tag. Broken in 3.21. Grant McLean.

2012-05-23    David E. Wheeler <david@justatheory.org>  
* Release 3.21

NOTE: COMPATIBILITY CHANGE: The 'codes_in_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes_in_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).

Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encounted before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.
Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.

2012-03-01   David E. Wheeler <david@justatheory.org>  
* Release 3.20

Removed use of 'done_testing' in t/xhtml15.t, which was added in v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text. Reported by Father Chrysostomos.

Fix test failure on case-insensitive, non-case-preserving file systems (VMS I'm looking at *you*). Patch from Craig A. Berry.

Pod::Simple::HTML no longer emits "href="#___top"" if a TOC (index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded text, rather than raw Pod, so that it will link to the ID actually generated for the section. Thanks to Randy Stauner for the report (with test case!) (RT #72544).

PullParser now throws an exception on an attempt to set a source more than once. Necessary because data from the previous source will be cached, so the new source would be ignored anyway. Create a new PullParser, instead. Thanks to Paul Boldra for the report (RT #74265).

2011-08-23   David E. Wheeler <david@justatheory.org>  
* Release 3.19

Fixed occasional test failure when tests are run in parallel (HARNESS_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and Marc Green for the fix.

Added "pod_handler" option. This is a callback that can be used to inspect the content on a "=pod" line. Marc Green/Google Summer of Code.

Added tests for proper line-ending parsing from the previous
release. The tests were in the repository, but didn't make it into the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the "parse_empty_lists" option. When enabled, Pod::Simple will recognize empty lists (that is, a blocks with '='over' and 'back' but nothing in between). Disabled by default. Marc Green/Google Summer of Code.

Added the "whiteline_handler" attribute. It's much like "code_handler", "cut_handler", and "pod_handler", except it's triggered on lines that contain only whitespace characters. Marc Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>'s raw contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.

2011-07-16 David E. Wheeler <david@justatheory.org>
* Release 3.18

Pod::Simple now properly parses Pod files using Mac OS Classic line-endings (\r). Marc Green/Google Summer of Code.

Fixed test failure in 't/search50.t when the test finds a .pod but the module is in a .pm. Thanks to the cpan-testers who reported this when the test searched for Capture::Tiny.

2011-07-09 David E. Wheeler <david@justatheory.org>
* Release 3.17

Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip_verbatim_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor_items" option to Pod::Simple::XHTML. This allows text items (which are output as <dt> elements) to have IDs that
can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content_seen" method. Thanks to Olaf Alders for the pull request.

2011-03-14   David E. Wheeler <david@justatheory.org>
* Release 3.16

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML (Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with '
'span style="white-space: nowrap;">' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key is to use pase_file(), not parse_from_file() (which should otherwise be undocumented, and is just there for Pod::Parser compatibility. Thanks to prodding from var Arnfrj Bjarmason (RT #65428).

Added the html_charset() and html_encode_chars() attributes to Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang () (RT #29587).

Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed mispelling of the "=encoding" markup in the parser (it was spelled "=encode"). Thanks to "TTY" for the patch. (RT #24820).

2010-11-11   David E. Wheeler <david@justatheory.org>
* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output. Thanks to HarleyPig for the patch!
Added parens around bar "qw(...)" in t/xhtml05.t. Thanks to Jerry D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the anchor tag. Thanks to John McNamara for the report (RT-60249).

Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).

Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27
  * Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.

Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of `perldoc perlpod` was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17   David E. Wheeler <david@justatheory.org>
  * Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17   David E. Wheeler <david@justatheory.org>
  * Release 3.12

Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html_h_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch_mode_page_object_init() method to Pod::Simple::XHTML.
This allows it to be used by Pod::Simple::HTML::Batch.
Fixed a regression in Pod::Simple::XHTML where '='begin html' blocks were incorrectly escaped rather than simply passed through unmolested.
RJBS.

Removed the undocumented "fullstop_space_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09  David E. Wheeler <david@justatheory.org>
* Release 3.11

Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve_man_page_link() to use a different URL.

Added the resolve_pod_page_link() and resolve_man_page_link() methods to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.

Pod::Simple::Text now outputs URLs for links created in the L<text|URL> format. For example, L<Perl|http://perl.org> is now output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perlpods spec.pod to sync up with Perl core (and to be released in Perl 5.12). Changes include:
* Removing the prohibition against L<text|href>
* Deprecation of L<section> and L<"section">
* Legalization of ":begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for
Pod::Simple::HTMLLegacy, which is at 5.01 and should not have its version number lowered.

2009-11-12   David E. Wheeler <david@justatheory.org>
* Release 3.10

Converted test files that had DOS endings to have Unix endings (RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output (RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the distribution) in the last two releases.

2009-10-27   Allison Randal <allison@perl.org>
* Release 3.09

Add support for an index (TOC) in the XHTML output from David E. Wheeler.

Add strip_verbatim_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get_title(), get_version(), get_description(), and get_author() methods. This allows one to fetch the contents of those sections regardless of the case of the labels (e.g., "NAME" and "Name" and "name" are all valid). Graham Barr.

Added the search_class() accessor to Pod::Simple::HTMLBatch. David E. Wheeler.

XHTML output now properly encodes entities in all places, not just in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than (broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly. David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the number specified in the POD in the output. This is on a par with out the HTML output works. David E. Wheeler.
Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::Entities (RT #43903 from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3 characters long. (RT #40450 from Renee Baecker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::XHTML. (RT #49615 from Chas Owens.)

Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing </a></dt>. (RT #37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML, following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>") is now properly parsed as text and entities instead of a tag embedded in a tag. This is in compliance with `perldoc perlpod` (RT #12239 from Michael Schwern).

Thanks to David E. Wheeler for applying patches, resolving bugs, and generally getting ready for the release.

2009-07-16 Allison Randal <allison@perl.org>
* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core; RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>
* Release 3.07

Fix module dependencies, make HTML::Entities optional and require Test::More.

2008-06-03 Allison Randal <allison@perl.org>
* Release 3.06

Fix bugs related to passing $1 to File::Spec, reported by Andrew Hamlin and John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit.
code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks
to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible
HTML formatter.

Add feature to parse additional text after =begin target as a block
title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs,
and generally getting ready for the release.

2007-03-03   Allison Randal <allison@perl.org>
* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when
Encode not installed.

Applied test patch from Ken Williams for 5.005_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture
directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused
by Debian stripping Pod documentation out of core modules.
(Three cheers to the CPAN testers and James Ponza for sending
enough reports that I could work out the pattern.)

2006-01-18   Allison Randal <allison@perl.org>
* Release 3.04

Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery
so Pod::Man can provide backward compatibility to existing users
(such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS
from Craig Berry.

2005-11-21   Allison Randal <allison@perl.org>
* Release 3.03
Applied whitespace patches for Pod::Man and Pod::Text from
Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24   Sean M. Burke <sburke@cpan.org>
* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple::HTMLBatch.

2004-05-24   Sean M. Burke <sburke@cpan.org>
* Release 3.01

No big changes to the main modules, but there's many changes to
the important Pod::Simple::HTML module.

Also, new modules:
   Pod::Simple::HTMLBatch
   Pod::Simple::HTMLLegacy
   Pod::Simple::Progress
   Pod::Simple::Search
and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and
Pod::Simple::HTMLBatch, which I hope to improve quite soon.

2004-05-07   Sean M. Burke <sburke@cpan.org>
* Release 2.06

Allison Randal brilliantly refactors a huge monolithic sub in
Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop_space_harden and
codes_in_verbatim, and the two methods abandon_output_string and
abandon_output_fh. Not yet documented.

New test fullstop_spaces.t and new corpus document
greek_iso_8859_7.pod.

Another version should be forthcoming in a few days that has the
new Pod::Simple::HTML stuff in it.
2003-11-04  Sean M. Burke <sburke@cpan.org>
* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely
crazy, I've tried to basically turn off all Unicode/utf8 support
under 5.6. Under 5.8 and above, Unicode should work fine, and
under 5.6, all Unicode characters should be replaced with a little
"can't render" symbol, either a '"' or a '?'.
Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10  Sean M. Burke <sburke@cpan.org>
* Release 2.04 -- minor bugfix version

* Added some code to insulate Pod::Simple to runtime changes in
the value of $/. Thanks to Iain Truskett for catching this.
* Added FILENO method to TiedOutFH.pm, to work quietly under some
perls. Thanks to Jochen Stenzel for catching this.
* Fixed some tests that erroneously failed under some 5.6's
because of chdir()s in *.t files messing up @INC. Thanks to many
who caught this, including Rocco Caputo.

2003-09-07  Sean M. Burke <sburke@cpan.org>
* Release 2.03 -- minor upgrade
* A =head[1234] command now closes any currently open =over, and
warns.
* Fixing a few obscure bugs, including one to do with the
Makefile.
* Added some tests for those bugs.

2003-09-02  Sean M. Burke <sburke@cpan.org>
* Release 2.02 -- fixing a testing bug
* Autrijus Tang found a silly bug of mine in corpustest.t's
testing of corpus/t/nonesuch.txt. Fixed,
* I add encoding_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01  Sean M. Burke <sburke@cpan.org>
* Release 2.01
* Moved all version numbers up to 2.01 for reasons of Tibetan
numerology.

* Implemented =encoding. Thanks a million to Jarkko, Autrijus,
Dan Kogai, and many others for their help, patience, and encouragement.

It's not yet documented, but see ./t/corpus/*.txt for examples at least.

* Added 'use utf8' to all the modules. Byebye perl-5.005 compatibility, hello decent perl-5.6 compatibility.

2003-09-01 Sean M. Burke <sburke@cpan.org>
* Release 0.98
* At Michael Schwern's suggestion, a list that begins with a "=item [number]" line where number isn't a 1, is no longer treated as an error, but instead is silently coerced into being a text-item list, just as if it were "=item wubble" or whatever.

2003-08-12 Sean M. Burke <sburke@cpan.org>
* Release 0.97
* Looking goooooooood. Not smelling so much like beta anymore!
* I think this might be the last version before I go putting "use utf8" all over the place.

* Added placefolders for "=encoding" support. If you use "=encoding", you'll get an error about "not yet implemented" instead of "unknown directive".

* Rewrote Pod::Simple::Pullparser's get_title, and added get_version, get_author, and get_description. Documented them. Thanks to Graham Barr for contributing an initial get_title and then being patient while I seemed to do nothing with it for months on end!

* More tests.

Otherwise just minor changes since last version:
* Fixed error in Pod::Simple::RTF.
* Added new but undocumented methods to Pod::Simple:
  unaccept_directive(s) unaccept_target(s) unaccept_code(s)
* Corrected 'back without open' error to 'back without over'
* A little tweaking to the _verbatim_format code.
* Dump routines may use \{NN} instead of \NN format.
* Pod::Simple::HTML now uses VerbatimFormatted
* A few changes of DEBUG messages -- nothing you'd normally see.

2002-11-19 Sean M. Burke <sburke@cpan.org>
* Release 0.96
* Still kinda sorta beta.

* Much much more docs in this version. Only a few feature changes:

* Added any_errata_seen to Pod::Simple. Should've been in there ages ago. Oops!
* Fixed some errors in the experimental VerbatimFormatted code.
* Added is_tagname / is_tag to Pod::Simple::PullParserStartToken and Pod::Simple::PullParserEndToken
* Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10 Sean M. Burke <sburke@cpan.org>
* Release 0.95
  * Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Now including perlpod and perlpodspec in the dist.

* Pod::Simple -- added parse_from_file
* Pod::Simple::RTF -- minor style changes, and minor change to the RTF-wrapping logic.
* Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.
* Pod::Simple::BlackBox -- added experimental new VerbatimFormatted stuff.

2002-10-16 Sean M. Burke <sburke@cpan.org>
* Release 0.94
  * Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::RTF -- minor style tweaks
* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.
* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for "=item * Foo" as a variant syntax for "=item *\n\nFoo". Tests added/changed accordingly.
* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at doing something with X<...>’s.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.93
  * Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.
* Pod::Simple -- added errors_seen attribute
* Pod::Simple::HTML -- added support for =for HTML ... directives, and =extend directives.
* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it until now.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.92
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Fixing bungled distribution.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.91
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::PullParserTextToken -- added 'text_r'

* Pod::Simple::PullParser -- added 'get_title' and 'get_title_short' to

* Pod::Simple -- corrected wording of "Format for second =extend parameter" error message.

* Pod::PullParser -- made its filter() run as intended, like Pod::Simple's filter.

* Pod::Subclassing -- more docs

2002-09-11  Sean M. Burke <sburke@cpan.org>
* Release 0.90
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

Open Source Used In Open Source Used In Cisco Identity Services Engine 3.2 53327
I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e
  "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)"
ptest.pod

$VAR1 = [
  'Document',
  { 'start_line' => 1 },
  [
    'head1',
    { 'start_line' => 1 },
    'PIE'
  ],
  [
    'Para',
    { 'start_line' => 3 },
    'I like',
    [
      'B',
      {},
      'pie'
    ],
    '!'  
  ];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just
of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although
it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the
tree's top node.
Every element node in the parse tree is represented by an arrayref of the form: `C<[[elementname], \%attributes, I<...subnodes...> ]>`. See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test `C<ref($node)>` to see whether you have an element node or just a text node.

The top node in the tree is `C<[ 'Document', \%attributes, I<...subnodes...> ]>`

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree">
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<d wheeler@cpan.org>

=back

=cut

Found in path(s):

* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/SimpleTree.pm

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

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e "exit Pod::Simple::Text->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT
Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

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

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>
=back

=cut

Found in path(s):
* /opt/cola/permits/1125845529_1611460735.49/0/perl-Pod-Simple-3.35-395.el8-1.src.rpm-cosi-expand-archive-LIKk5gg4/Pod-Simple-3.35.tar.gz-cosi-expand-archive-XYLCftC4/Pod-Simple-3.35/lib/Pod/Simple/Text.pm

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

=head1 NAME
=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
  my $self = shift;
  Token:
  while(my $token = $self->get_token) {
    ...process each token...
  }
}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but
one that uses an interface based on a stream of token objects,
instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.
A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( $document_source )

=item $parser->set_source( @document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)  

=item $parser->parse_string_document(...)  

=back
For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

=over

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can’t find the title, it will return empty-string (""").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".
For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string ("").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:
$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of the "=head1 VERSION

[BIG BLOCK]\n" block. Note that this does NOT return the module's C<$VERSION>!! To recognize a "=head1 Version\n
[BIG BLOCK]\n" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.
COPYRIGHT AND DISCLAIMERS

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AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

JUNK:

sub _old_get_title { # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {
    push @to_unget, $self->get_token;
    unless(defined $to_unget[-1]) { # whoops, short doc!
      pop @to_unget;
      last;
    }

    DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";

    (DEBUG and print STDERR "Too much in the buffer.\n"),
    last if @to_unget > 25; # sanity
my $pattern = "\n";
if( !@to_unget[-1]->type eq 'end'
    #and $to_unget[-1]->tagname eq 'Para'
    #and
    ($pattern = join('',
        map {$_->type eq 'start' ? ('<".' . $_->tagname . ':"') :
            ($_->type eq 'end'  ) ? ('</".' . $_->tagname . ':"') :
                ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)>s ? $1 : 'X') :
                    "BLORP"
            @to_unget
        ) =~ m{<head1>NAME</head1><Para>(X|</?\[BCIFLS]\]+)</Para>$}s
    ) )
    {
        # Whee, it fits the pattern
        DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
        $title = "\n";
        foreach my $t (reverse @to_unget) {
            last if $t->type eq 'start' and $t->tagname eq 'Para' ;
            $title = $t->text . $title if $t->type eq 'text' ;
        }
        undef $title if $title =~ m<\s*$>; # make sure it's contentful!
    last;
    }
    elsif ($pattern =~ m{<head\d>(.+)</head\d>$} and !( $1 eq '1' and $2 eq 'NAME' )
    )
    {
        # Well, it fits a fallback pattern
        DEBUG and print STDERR "Seems to match NAMEless pattern.\n";
        $title = "\n";
        foreach my $t (reverse @to_unget) {
            last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s ;
            $title = $t->text . $title if $t->type eq 'text' ;
        }
        undef $title if $title =~ m<\s*$>; # make sure it's contentful!
    last;
    }
    else {
        DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
    }
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print STDERR " \n Returning title <$title>\n" }
    else { print STDERR "Returning title <<\n" }
}
1.2444 python3-cairo 1.16.3-6.el8

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1.2446 peachpie-microsoft-codeanalysis

3.7.0.0

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Additional -

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json

https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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c) Accompany the work with a written offer, valid for at
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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
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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
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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
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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 * hmac.c is derived from:

Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
       UCSD
       R. Canetti
       IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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File: PSReadLine
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https://github.com/lzybkr/PSReadLine

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File: Hashtables from ConvertFrom-json
https://stackoverflow.com/questions/22002748/hashtables-from-convertfrom-json-have-different-type-from-powershells-built-in-h

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1.2460 openssl 1.1.1k-6.el8_5

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en" dir="ltr">
<head>
<title>PostgreSQL JDBC License</title>
<meta http-equiv="Content-Type" content="text/xhtml; charset=utf-8" />
<meta name="description" content="The official site for the PostgreSQL JDBC Driver" />
<meta name="copyright" content="The PostgreSQL Global Development Group" />

<style type="text/css" media="screen" title="Normal Text">@import url("../media/css/base.css");</style>

<link rel="shortcut icon" href="../media/favicon.ico" />

<!--[if lte IE 6]>
<script type="text/javascript">
_var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-1345454-1']);
_gaq.push(['_trackPageview']);
(function() {
 var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
 var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();
</script>
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</head>

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<div id="pgContainer">

</div>
</div>

<body>
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<div id="pgContainer">

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<input value="jdbc.postgresql.org" name="sitesearch" type="hidden" />
<input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if(this.value==this.defaultValue)"/>
<input type="submit" value="Search" />
</form>

</div>
</div>

</body>
</html>
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this.value="" value="Google Search" accesskey="s" />
<!-- input onFocus="getBlank (this, 'Search the site with google');" size="25" name="q" id="query" type="text" value="Search the site with google">&nbsp;-->
<input name="Search" value="Search" type="submit" />
</form>

<!-- New PostgreSQL form
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<div>
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<input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if (this.value==this.defaultValue ) this.value='';" value="Search" accesskey="s" />
<input name="a" type="hidden" value="1"/>
<input id="submit" name="submit" type="submit" value="Search" />
</div>
</form>

-->
</div> <!-- pgSearch -->

<br />

<div id="pgHeader">
<div id="pgHeaderLogoLeft">
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<map name="maplinks">
<area shape="rect" coords="0,0,231,80" alt="PostgreSQL" href="https://postgresql.org" />
<area shape="rect" coords="232,0,390,80" alt="PostgreSQL JDBC Driver" href="https://jdbc.postgresql.org" />
</map>
</div>
<div id="pgHeaderLogoRight">
<a href="https://postgresql.org">
<img width="210" height="80" alt="The world's most advanced open source database." src="../media/img/layout/hdr_right.png" />
</a>
</div>
</div> <!-- pgHeader -->

<div id="pgTopNav">
<div id="pgTopNavLeft">
<img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_lft.png" />
</div>
<div id="pgTopNavRight">
<img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_rgt.png" />
</div>
<ul id="pgTopNavList">
<li><a href="../index.html" title="Home">Home</a></li>
<li><a href="../about/about.html" title="About">About</a></li>
<li><a href="../download.html" title="Download">Download</a></li>
</ul>

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1.2470 cockpit-system 211.3-1.el8

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#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#
# package.json license: format uses https://spdx.org/licenses/ identifiers, which are mostly compatible with
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/#license-specification

import os
import sys
import json
import re
import subprocess
import argparse
from glob import glob

def parse_args():
    p = argparse.ArgumentParser(description='Generate debian/copyright file from template and node_modules')
    p.add_argument('node_modules', help='path to node_modules directory')
    return p.parse_args()
def template_licenses(template):
    
    ids = set()
    for l in template.splitlines():
        if l.startswith('License: '):
            ids.add(l.split(None, 1)[1].lower())
    return ids


def module_license(moddir):
    
    # First check if package.json has a "license" field
    try:
        with open(os.path.join(moddir, 'package.json'), encoding='UTF-8') as f:
            l = json.load(f)['license']
            if l.startswith('(MIT OR '):
                return 'MIT'
            if l == 'MPL 2.0':
                # https://github.com/novnc/noVNC/pull/819
                return 'MPL-2.0'
        return l
    except (IOError, KeyError):
        pass

    # *LICENSE*/COPYING/README
    if os.path.exists(os.path.join(moddir, 'MIT-LICENSE.txt')):
        return 'MIT'
    try:
        with open((glob(os.path.join(moddir, 'LICENSE*')) +
                    glob(os.path.join(moddir, 'COPYING')))[0]) as f:
            text = f.read()
            if 'Permission is hereby granted,' in text and 'THE SOFTWARE IS PROVIDED "AS IS"' in text:
                return 'MIT'
    except IndexError:
        pass

    raise SystemError('Could not determine license from %s' % moddir)


def module_copyright(moddir):
    
    mod = os.path.basename(moddir)
    copyrights = set()
    try:
out = subprocess.check_output(['env', '-u', 'LANGUAGE', 'LC_ALL=C.UTF-8', 'grep', '-hri', 'copyright.*\([19][0-9]\+\|(c)\)'],
cwd=moddir).decode('UTF-8')
for l in out.splitlines():
# ignore compiled .css.map files
if l.startswith('{"version":') or '*//*!' in l:
continue
# weed out some noise
if 'grunt.template.today' in l or 'copyright-mark' in l or '@font-face' in l or 'Binary file' in l:
continue
if '<name of author>' in l:
continue
l = l.replace('<copyright>', '').replace('</copyright>', '')
l = l.replace('&copy;', '(c)').replace('copyright = ', '')
l = re.sub('@license.*Copyright', '', l)
l = l.strip(' \t*/\'|,')
if not l.endswith('Inc.'):
# avoids some duplicated lines which only differ in trailing dot
l = l.strip('.')
if l.startswith("u'") or l.startswith('u"'): # Python unicode prefix
l = l[2:]
if 'Fixes #' in l:
continue # this is from a changelog
# some noise fine-tuning for specific packages
if mod == 'bootstrap' and ('https://github.com' in l or l == 'Copyright 2015'):
continue
if mod == 'patternfly':
l = re.sub(' and licensed.*', '', l)
copyrights.add(' ' + l) # space prefix for debian/copyright RFC822 format
except subprocess.CalledProcessError:
pass
if not copyrights:
# fall back to package.json's author
try:
with open(os.path.join(moddir, 'package.json')) as f:
author = json.load(f)['author']
# `author` can be either a string or a dict
# https://flaviocopes.com/package-json/#author
if isinstance(author, dict):
author = author['name']
assert isinstance(author, str)
copyrights.add(' ' + author)
except (IOError, KeyError):
pass

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if not copyrights:
    raise SystemError('Did not find any copyrights in %s' % moddir)
return copyrights

#
# main
#

args = parse_args()

with open(template_file, encoding='UTF-8') as f:
    template = f.read()

license_ids = template_licenses(template)
paragraphs = []
for module in sorted(os.listdir(args.node_modules)):
    if module == 'README':
        continue
    moddir = os.path.join(args.node_modules, module)
    license = module_license(moddir)
    if license.lower() not in license_ids:
        raise KeyError('%s has license %s which is not in %s' % (module, license, template_file))
    copyrights = module_copyright(moddir)
    paragraphs.append('''Files: node_modules/%s/*
Copyright:%s
License: %s''' % (module, '
'.join(sorted(copyrights)), license))

# force UTF-8 output, even when running in C locale
for l in template.splitlines():
    if '#NPM' in l:
        sys.stdout.buffer.write('

'.join(paragraphs).encode('UTF-8'))
    else:
        sys.stdout.buffer.write(l.encode('UTF-8'))
        sys.stdout.buffer.write(b'
')

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cockpit
Source: https://github.com/cockpit-project/cockpit
Comment:
This does not directly cover the files in dist/*. These are "minified" and
compressed JavaScript/HTML files built from pkg/* and node_modules/* with
node, npm, and webpack. Their copyrights and licenses are described below.
Rebuilding these requires internet access as that process needs to download
additional npm modules from the Internet, thus upstream ships the pre-minified
webpacks as part of the upstream release tarball so that the package can be
built without internet access and lots of extra unpackaged build dependencies.

Files: *
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Files: src/bridge/mock-pmda.c
test/selenium/selenium_start.sh
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Files: src/ssh/mock-sshd.c
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Files: tools/install-sh
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Files: pkg/*/*.metainfo.xml
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#NPM# semi-autogenerated records for node_modules/ go here

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