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1.3 paramiko 2.7.2

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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
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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.)

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1.7 traceroute 2.1.0-6.el8

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1.8 pciutils 3.6.2 r0

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1.9 pps-tools 1.0.2 r0

1.10 python-pyasn1 0.4.7 r0
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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's ProtoBuffers or FlatBuffers, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

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

.. toctree::
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/pyasn1/contents

Use case
--------

.. toctree::
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/example-use-case

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

.. toctree::
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/download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.
License
-------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.
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* /opt/ws_local/PERMITS_SQL/1084376474_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/tests/type/test_opentype.py

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ASN.1 library for Python

------------------------
[[PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)][(https://pypi.org/project/pyasn1)

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[[GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

--------------
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
```
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
```
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
>>> record = encode({'id': 123, 'room': 321, 'house': 0})
...
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the [repo](https://github.com/etingof/pyasn1-modules).

How to get `pyasn1`
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### 1.11 grep 3.3 r0

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Version 3, 29 June 2007

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### 1.17 cracklib 2.9.5 r0

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^L

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

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

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

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.
> -----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 th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> 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.
> > =20
> > 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.
> > =20
> > 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.
> > -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
> by me.
>
> I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

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

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

Cheers,

Nalin

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

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

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

-mike

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

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

yes, go for it. thanks++

-a

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

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

> yes, go for it. thanks++

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

-mike

--------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL FROM ARTISTIC.
--------

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

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

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
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: [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (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>
    <EC9071327D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80701010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
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-OriginarrivalTime: 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: alemc@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

1.18 libxcrypt 4.4.8 r0
1.18.1 Available under license :

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Version 2.1, February 1999

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That's all there is to it!
1.19 bash-completion 2.9 r0

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1.20 sed 4.2.2 r0

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1.24 um-ldap 3.3

1.24.1 Available under license :

```
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# * is provided 'as is' 9; without express or implied warranty.
# *
# * searchpref.h: display template library defines
# * 16 May 1994 by Gordon Good
# * /
```

1.25 python3-more-itertools 7.2.0 r0

1.25.1 Available under license :

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1.26 make 4.2.1 r0

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/* Argument parsing and main program of GNU Make.
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#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <cassert.h>
#ifndef _AMIGA
# include <dos/dos.h>
# include <proto/dos.h>
#endif
#ifndef WINDOWS32
# include <windows.h>
# include <io.h>
# include "pathstuff.h"
# include "sub_proc.h"
# include "w32err.h"
#endif
#ifdef __EMX__
# include <sys/types.h>
# include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
# include <fcntl.h>
#endif
#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;

    x = toupper (value[0]);
    switch (x)
    {
    case '1':
    case 'T':
    case 'E':
        return 1;
        break;
    case '0':
    case 'F':
    case 'D':
        return 0;
    }
}
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
#define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif

#ifndef STDC_HEADERS
#ifndef sun                    /* Sun has an incorrect decl in a header. */
#define exit (int) __attribute__ ((noreturn));
#endif

double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
  int c;                      /* The switch character. */
  enum                        /* Type of the value. */
  {
    flag,                   /* Turn int flag on. */
    flag_off,               /* Turn int flag off. */
    string,                 /* One string per invocation. */
    strlist,                /* One string per switch. */
    filename,               /* A string containing a file name. */
    positive_int,           /* A positive integer. */
    floating,               /* A floating-point number (double). */
    ignore                  /* Ignored. */
  } type;
  void *value_ptr;    /* Pointer to the value-holding variable. */
  unsigned int env:1;         /* Can come from MAKEFLAGS. */
  unsigned int toenv:1;       /* Should be put in MAKEFLAGS. */
unsigned int no_makefile; /* Don't propagate when remaking makefiles. */

const void *noarg_value; /* Pointer to value used if no arg given. */
const void *default_value; /* Pointer to default value. */

const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */
#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */
int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */
int silent_flag;

/* Nonzero means just touch the files that would appear to need remaking (-t). */
int touch_flag;

/* Nonzero means just print what commands would need to be executed, don't actually execute them (-n). */
int just_print_flag;

/* Print debugging info (--debug). */
static struct stringlist *db_flags = 0;
static int debug_flag = 0;
int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands executing to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R). */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;
/* Nonzero means ignore print_directory_flag and never print the directory. 
   This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;
static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our 
   children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run. 
   Negative values mean unlimited, while zero means limit to 
   zero load (which could be useful to start infinite jobs remotely 
   but one at a time locally). */
#ifndef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */
static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */
static struct stringlist *include_directories = 0;

/* List of files given with -o switches. */
static struct stringlist *old_files = 0;

/* List of files given with -W switches. */
static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */
static int print_usage_flag = 0;

/* If nonzero, we should print a warning message for each reference to an undefined variable. */
int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether they appear out of date or not. */
static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */
int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */
struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the translators, especially those trying to translate to right-to-left languages like Hebrew. */

static const char *const usage[] =
{
  N_("Options:\n"),
  N_("\n-\b, -m                      Ignored for compatibility.\n"),
  N_("\n-B, --always-make           Unconditionally make all targets.\n"),
  N_("\n-C DIRECTORY, --directory=DIRECTORY\n  Change to DIRECTORY before doing anything.\n"),
  N_("\n-d                          Print lots of debugging information.\n"),
  N_("\n--debug[=FLAGS]             Print various types of debugging information.\n"),
  N_("\n-e, --environment-overrides\n  Environment variables override makefiles.\n"),
  N_("\n--eval=STRING               Evaluate STRING as a makefile statement.\n"),
  N_("\n-f FILE, --file=FILE, --makefile=FILE\n  Read FILE as a makefile.\n"),
  N_("\n-h, --help                  Print this message and exit.\n"),
  N_("\n-i, --ignore-errors         Ignore errors from recipes.\n"),
  N_("\n-I DIRECTORY, --include-dir=DIRECTORY\n  Search DIRECTORY for included makefiles.\n"),
  N_("\n-j [N], --jobs[=N]          Allow N jobs at once; infinite jobs with no arg.\n"),
  N_("\n-k, --keep-going            Keep going when some targets can't be made.\n"),
  N_("\n-l [N], --load-average[=N], --max-load[=N]\n  Don't start multiple jobs unless load is below N.\n"),
  N_("\n"
-L, --check-symlink-times  Use the latest mtime between symlinks and target

-N_("\n-n, --just-print, --dry-run, --recon\n
  Don't actually run any recipe; just print them.

-N_("\n-o FILE, --old-file=FILE, --assume-old=FILE\n
  Consider FILE to be very old and don't remake it.

-N_("\n-O[TYPE], --output-sync[=TYPE]\n
  Synchronize output of parallel jobs by TYPE.

-N_("\n-p, --print-data-base  Print make's internal database.

-N_("\n-q, --question  Run no recipe; exit status says if up to date.

-N_("\n-r, --no-builtin-rules  Disable the built-in implicit rules.

-N_("\n-R, --no-builtin-variables  Disable the built-in variable settings.

-N_("\n-s, --silent, --quiet  Don't echo recipes.

-N_("\n-S, --no-keep-going, --stop\n
  Turns off -k.

-N_("\n-t, --touch  Touch targets instead of remaking them.

-N_("\n--trace  Print tracing information.

-N_("\n-v, --version  Print the version number of make and exit.

-N_("\n-w, --print-directory  Print the current directory.

-N_("\n--no-print-directory  Turn off -w, even if it was turned on implicitly.

-N_("\n-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n
  Consider FILE to be infinitely new.

-N_("\n--warn-undefined-variables  Warn when an undefined variable is referenced.

NULL

); 

/* The table of command switches.  
   Order matters here: this is the order MAKEFLAGS will be constructed.  
   So be sure all simple flags (single char, no argument) come first.  */

static const struct command_switch switches[] =
{
  { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
};
{ 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
{ 'd', flag, &debug_flag, 1, 1, 0, 0, 0 },
#endif WINDOWS32
{ 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
{ 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
{ 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
{ 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
{ 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "keep-going" },
{ 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
{ 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
{ 'n', flag, &just_print_flag, 1, 1, 0, 0, 0, "just-print" },
{ 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
{ 'q', flag, &question_flag, 1, 1, 0, 0, "question" },
{ 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
{ 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0, "no-builtin-variables" },
{ 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
{ 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag, "no-keep-going" },
{ 't', flag, &touch_flag, 1, 1, 0, 0, "touch" },
{ 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
{ 'w', flag, &print_directory_flag, 1, 1, 0, 0, 0, "print-directory" },
/* These options take arguments. */
{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
{ 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
{ 'I', filename, &include_directories, 1, 1, 0, 0, 0, "include-dir" },
{ 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots, "jobs" },
#ifndef NO_FLOAT
{ 'l', floating, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#else
{ 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average, "load-average" },
#endif
{ 'o', filename, &old_files, 0, 0, 0, 0, 0, "old-file" },
{ 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
{ 'W', filename, &new_files, 0, 0, 0, 0, 0, "what-if" },
/* These are long-style options. */
{ CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "debug" },
{ CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
{ CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
{ CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0, "inhibit-print-directory" },
"no-print-directory" },
{ CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0,
"warn-undefined-variables" },
{ CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, "eval" },
{ CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
{ 0, 0, 0, 0, 0, 0, 0, 0 }
}:

/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
{ "quiet", no_argument, 0, 's' },
{ "stop", no_argument, 0, 'S' },
{ "new-file", required_argument, 0, 'W' },
{ "assume-new", required_argument, 0, 'W' },
{ "assume-old", required_argument, 0, 'o' },
{ "max-load", optional_argument, 0, 'l' },
{ "dry-run", no_argument, 0, 'n' },
{ "recon", no_argument, 0, 'n' },
{ "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
   cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */
char *directory_before_chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/* Pointer to the value of the .DEFAULT_GOAL special variable. The value will be the name of the goal to remake if the command line does not override it. It can be set by the makefile, or else it's the first target defined in the makefile whose name does not start with '.'. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT whose commands are used for any file that has none of its own. This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target. This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target. This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target. This causes the entire recipe to be handed to SHELL as a single string, potentially containing newlines. */

int one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This attempts to synchronize the output of parallel jobs such that the results of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */
int trace_flag = 0;

/* Nonzero if we have seen the `.NOTPARALLEL` target.
   This turns off parallel builds for this invocation of make. */
int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */
int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifndef UCHAR_MAX
#define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */
struct output make_sync;

/* Mask of signals that are being caught with fatal_error_signal. */

#ifndef POSIX
sigset_t fatal_signal_set;
#else
  #if !defined HAVE_SIGSETMASK
    int fatal_signal_mask;
  #endif
#endif

#ifndef HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
#define bsd_signal signal
#else
static bsd_signal_ret_t bsd_signal (int sig, bsd_signal_ret_t func)
{
  struct sigaction act, oact;
  act.sa_handler = func;
  act.sa_flags = SA_RESTART;

static bsd_signal_ret_t bsd_signal (int sig, bsd_signal_ret_t func)
{
sigemptyset (&act.sa_mask);
sigaddset (&act.sa_mask, sig);
if (sigaction (sig, &act, &oact) != 0)
    return SIG_ERR;
return oact.sa_handler;
}
#endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if we should stop parsing on that character. *
*/

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'0'] = MAP_NUL;
    stopchar_map[(int)'#'] = MAP_COMMENT;
    stopchar_map[(int)';'] = MAP_SEMI;
    stopchar_map[(int)'='] = MAP_EQUALS;
    stopchar_map[(int)':'] = MAP_COLON;
    stopchar_map[(int)'%'] = MAP_PERCENT;
    stopchar_map[(int)'|'] = MAP_PIPE;
    stopchar_map[(int)'.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int)','] = MAP_COMMA;
    stopchar_map[(int)'$'] = MAP_VARIABLE;
    stopchar_map[(int)'-'] = MAP_USERFUNC;
    stopchar_map[(int)'_'] = MAP_USERFUNC;
    stopchar_map[(int)' '] = MAP_BLANK;
    stopchar_map[(int)'\t'] = MAP_BLANK;
    stopchar_map[(int)'\'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int)'] |= MAP_DIRSEP;
    stopchar_map[(int']] |= MAP_DIRSEP;
    #endif
    }
stopchar_map[(int)'>'] |= MAP_DIRSEP;
#elif defined(HAVE_DOS_PATHS)
stopchar_map[(int)'\\'] |= MAP_DIRSEP;
#endif
for (i = 1; i <= UCHAR_MAX; ++i)
{
if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
/* Don't mark blank characters as newline characters. */
stopchar_map[i] |= MAP_NEWLINE;
else if (isalnum (i))
stopchar_map[i] |= MAP_USERFUNC;
}
}
static const char *
expand_command_line_file (const char *name)
{
const char *cp;
char *expanded = 0;
if (name[0] == '\0')
O (fatal, NILF, _("empty string invalid as file name"));
if (name[0] == '~')
{
expanded = tilde_expand (name);
if (expanded && expanded[0] != '\0')
name = expanded;
}
/* This is also done in parse_file_seq, so this is redundant
for names read from makefiles. It is here for names passed
on the command line. */
while (name[0] == '.' && name[1] == '/')
{
name += 2;
while (name[0] == '/')
/* Skip following slashes: ".//foo" is "foo", not "/foo". */
++name;
}
if (name[0] == '\0')
{
/* Nothing else but one or more "./", maybe plus slashes! */
name = "./";
}

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cp = strcache_add(name);

free(expanded);

return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
db_level, db_level?
DB_NONE: DB_BASIC);
#endif

static void
decode_debug_flags(void)
{
const char **pp;

if (debug_flag)
    db_level = DB_ALL;

if (debug_flag)
    for (pp=db_flags->list; *pp; ++pp)
        const char *p = *pp;

while (1)
{
switch(tolower(p[0]))
{
case 'a':
db_level |= DB_ALL;
    break;

case 'b':
db_level |= DB_BASIC;
    break;

case 'i':
db_level |= DB_BASIC | DB_IMPLICIT;
    break;

case 'j':
db_level |= DB_JOBS;
    break;

    case 'm':
db_level |= DB_BASIC | DB_MAKEFILES;
break;
case 'n':
    db_level = 0;
break;
case 'v':
    db_level |= DB_BASIC | DBVerbose;
break;
default:
    OS (fatal, NILF,
    _("unknown debug level specification '%s"), p);
}

while (*++p) != '\0')
    if (*p == ',' || *p == ' ')
        ++p;
    break;

if (*p == '\0')
    break;
}

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
#ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
#else
    if (output_sync_option)
    {
        if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
        else if (streq (output_sync_option, "line"))
            output_sync = OUTPUT_SYNC_LINE;
        else if (streq (output_sync_option, "target"))
            output_sync = OUTPUT_SYNC_TARGET;
        else if (streq (output_sync_option, "recurse"))
            output_sync = OUTPUT_SYNC_RECURSE;
        else

OS (fatal, NILF,
    _("unknown output-sync type '%s'"), output_sync_option);
}

if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32
#ifdef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof (sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}
#endif /* NO_OUTPUT_SYNC */

/*
* HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
* exception and print it to stderr instead.
*
* If ! DB_VERBOSE, just print a simple message and exit.
* If DB_VERBOSE, print a more verbose message.
* If compiled for DEBUG, let exception pass through to GUI so that
* debuggers can attach.
*/
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
HANDLE hEventSource;
LPTSTR lpszStrings[1];
#endif

if (!ISDB (DB_VERBOSE))
{
    sprintf (errmsg,
        "(%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)n",
        prg, exrec->ExceptionCode, exrec->ExceptionAddress);
    fprintf (stderr, errmsg);
    exit (255);
}

sprintf (errmsg,
    
    "Unhandled exception filter called from program %s
    ExceptionCode = %lx
    ExceptionFlags = %lx
    ExceptionAddress = 0x%p\n",
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
            ? _("Access violation: write operation at address 0x%p\n")
            : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

    /* turn this on if we want to put stuff in the event log too */
    #ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource, /* handle of event source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0, /* event category */
            0, /* event ID */
            NULL, /* current user's SID */
            1, /* strings in lpszStrings */
            0, /* no bytes of raw data */
            lpszStrings, /* array of error strings */
            NULL); /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
    #endif
/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif
}

/*
 * On WIN32 systems we don't have the luxury of a /bin directory that
 * is mapped globally to every drive mounted to the system. Since make could
 * be invoked from any drive, and we don't want to propagate /bin/sh
 * to every single drive. Allow ourselves a chance to search for
 * a value for default shell here (if the default path does not exist).
 */

int find_and_set_default_shell (const char *token)
{
int sh_found = 0;
char *atoken = 0;
const char *search_token;
const char *tokend;
PATH_VAR(sh_path);
extern const char *default_shell;

if (!token)
    search_token = default_shell;
else
    search_token = atoken = xstrdup (token);

/* If the user explicitly requests the DOS cmd shell, obey that request.
   However, make sure that's what they really want by requiring the value
   of SHELL either equal, or have a final path element of, "cmd" or
   "cmd.exe" case-insensitive. */
tokend = search_token + strlen (search_token) - 3;
if (((tokend == search_token
    || (tokend[-3] == '/' || tokend[-3] == '\'))
    && !strcasecmp (tokend[-4], "cmd"))
    || ((tokend - 4 == search_token
        || (tokend - 4 > search_token
            && (tokend[-5] == '/' || tokend[-5] == '\'))
            && !strcasecmp (tokend - 4, "cmd.exe")))
    || ((tokend == search_token
        || (tokend[-1] == '/' || tokend[-1] == '\'))
        && !strcasecmp (tokend[-2], "cmd")))
    sh_found = 1;

if (sh_found)
    (sh_found = 1)
else
    (sh_found = 0)

if (sh_found)
    sh_found = 1;
else
    sh_found = 0;

if (sh_found)
{  
    batch_mode_shell = 1;
    unixy_shell = 0;
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                           default_shell));
    sh_found = 1;
}
else if (!no_default_sh_exe  
    && (token == NULL || !strcmp (search_token, default_shell)))
{
    /* no new information, path already set or known */
    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                           default_shell));
    sh_found = 1;
}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);
        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;
            }
        }
    }
}
/* terminate loop */
p += strlen (p);
else
{
    *ep = PATH_SEPARATOR_CHAR;
    p = ++ep;
}

ep = strchr (p, PATH_SEPARATOR_CHAR);

/* be sure to check last element of Path */
if (p && *p)
{
    sprintf (sh_path, "%s/%s", p, search_token);
    if (_access (sh_path, 0) == 0)
    {
        default_shell = xstrdup (w32ify (sh_path, 0));
        sh_found = 1;
    }
}

if (sh_found)
    DB (DB_VERBOSE,
        (_("find_and_set_shell() path search set default_shell = %\s\n"),
        default_shell));

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);

#endif /* WINDOWS32 */
```c
#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver (void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}
#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
    #ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;
    SetUnhandledExceptionFilter (handle_runtime_exceptions);
    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
    #endif

    output_init (&make_sync);

    initialize_stopchar_map();

    #ifdef SET_STACK_SIZE
```
/* Get rid of any avoidable limit on stack size. */
{
    struct rlimit rlim;

    /* Set the stack limit huge so that alloca does not fail. */
    if (getrlimit (RLIMIT_STACK, &rlim) == 0
        && rlim.rlim_cur > 0 && rlim.rlim_cur < rlim.rlim_max)
    {
        stack_limit = rlim;
        rlim.rlim_cur = rlim.rlim_max;
        setrlimit (RLIMIT_STACK, &rlim);
    }
    else
        stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (_POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
     | __system_use_shell
     | __system_allow_multiple_cmds
     | __system_allow_long_cmds
     | __system_handle_null_commands
     | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
    sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig)    sigaddset (&fatal_signal_set, sig)
#else


```c
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#endif
#define ADD_SIG(sig)    fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig)    (void)sig
#endif

#define FATAL_SIG(sig)                                                        
   if (bsd_signal (sig, fatal_error_signal) == SIG_IGN)                        
       bsd_signal (sig, SIG_IGN);                                                
   else                                                                        
       ADD_SIG (sig);
#endif

#ifdef SIGHUP
FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);
#ifdef __MSDOS__
   /* Windows 9X delivers FP exceptions in child programs to their
      parent! We don't want Make to die when a child divides by zero,
      so we work around that lossage by catching SIGFPE. */
   FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif

#define HAVE_WAIT_NOHANG
```

# if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
# endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
{
    program = strchr (argv[0], '/');
#if defined(__MSDOS__) || defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\');
    else
    {
        /* Some weird environments might pass us argv[0] with
        both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\');
        if (p && p > program)
            program = p;
    }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#endif
#if defined WINDOWS32
    if (program == 0)
    {
        /* Extract program from full path */
        program = strchr (argv[0], '\');
        if (program)
        {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
        }
    }
#endif
#endif

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set_program_name (argv[0]);
program = program_name;
{
    const char *shell;
    char pwdbuf[256];
    char *pwd;
    shell = getenv ("SHELL");
    if (shell != NULL)
        vms_gnv_shell = 1;

    /* Need to know if CRTL set to report UNIX paths. Use getcwd as it works on all versions of VMS. */
    pwd = getcwd(pwdbuf, 256);
    if (pwd[0] == '/')
        vms_report_unix_paths = 1;

    vms_use_mcr_command = get_vms_env_flag("GNV$MAKE_USE_MCR", 0);

    vms_always_use_cmd_file = get_vms_env_flag("GNV$MAKE_USE_CMD_FILE", 0);

    /* Legacy behavior is on VMS is older behavior that needed to be changed to be compatible with standard make behavior.
     * For now only completely disable when running under a Bash shell.
     * TODO: Update VMS built in recipes and macros to not need this behavior, at which time the default may change. */
    vms_legacy_behavior = get_vms_env_flag("GNV$MAKE_OLD_VMS", !vms_gnv_shell);

    /* VMS was changed to use a comma separator in the past, but that is incompatible with built in functions that expect space separated lists. Allow this to be selectively turned off. */
    vms_comma_separator = get_vms_env_flag("GNV$MAKE_COMMA", vms_legacy_behavior);

    /* Some Posix shell syntax options are incompatible with VMS syntax. VMS requires double quotes for strings and escapes quotes differently. When this option is active, VMS will try to simulate Posix shell simulations instead of using VMS DCL behavior. */
    vms_unix_simulation = get_vms_env_flag("GNV$MAKE_SHELL_SIM", !vms_legacy_behavior);

}
else
    ++program;
#endif
}

/* Set up to access user data (files). */
user_access();

initialize_global_hash_tables();

/* Figure out where we are. */
#endif

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
    #ifdef HAVE_GETCWD
        perror_with_name("getcwd", "");
    #else
        OS (error, NILF, "getwd: %s", current_directory);
    #endif
    current_directory[0] = '0';
    directory_before_chdir = 0;
}
else
    directory_before_chdir = xstrdup (current_directory);
#endif

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname(".VARIABLES", ";", o_default, 0)->special = 1;
/* define_variable_cname(".TARGETS", ";", o_default, 0)->special = 1; */
define_variable_cname(".RECIPEPREFIX", ";", o_default, 0)->special = 1;
define_variable_cname(".SHELLFLAGS", ",-c", o_default, 0);
define_variable_cname(".LOADED", ",", o_default, 0);

/* Set up .FEATURES */
Use a separate variable because define_variable_cname() is a macro and some compilers (MSVC) don't like conditionals in macros. */
{
    const char *features = "target-specific order-only second-expansion"
        " else-if shortest-stem undefine oneshell"
#endif

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" archives"
#endif
#ifdef MAKE_JOBSERVER
 " jobserver"
#endif
#ifdef NO_OUTPUT_SYNC
 " output-sync"
#endif
#ifdef MAKE_SYMLINKS
 " check-symlink"
#endif
#ifdef HAVE_Guile
 " guile"
#endif
#ifdef MAKE_LOAD
 " load"
#endif
;

#define_variable_cname (.FEATURES", features, o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
 done before $(MAKE) is figured out so its definitions will not be
 from the environment. */
#endif

#ifndef _AMIGA
{
 unsigned int i;

 for (i = 0; envp[i] != 0; ++i)
 {  
  struct variable *v;
  const char *ep = envp[i];
  /* By default, export all variables culled from the environment. */
  enum variable_export export = v_export;
  unsigned int len;

  while (! STOP_SET (*ep, MAP_EQUALS))
   ++ep;

  /* If there's no equals sign it's a malformed environment. Ignore. */
  if (*ep == '\0')
   continue;
...
#ifdef WINDOWS32
    if (!unix_path && strneq (envp[i], "PATH=", 5))
        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path = ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
    }
#endif

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED ();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (streq (v->name, "SHELL"))
{
    #ifndef __MSDOS__
        export = v_noexport;
    #endif
    shell_var.name = xstrdup("SHELL");
    shell_var.length = 5;
    shell_var.value = xstrdup (ep);
}

v->export = export;
}
#endif

/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string */
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : ",
        o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:" , ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
        {
            if (fib.fib.DirEntryType < 0) /* File */
            {
                /* Define an empty variable. It will be filled in
                    variable_lookup(). Makes startup quite a bit faster. */
                define_variable (fib.fib_fileName,
                    strlen (fib.fib_fileName),
                    ",
                    o_env, 1)->export = v_export;
            }
            UnLock (env);
            UnLock (CurrentDir (old));
        }
    }
#endif
/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", ",
    o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like: 
    MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
    and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading the
 makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

    decode_switches (argc, (const char **)argv, 0);
    argv_slots = arg_job_slots;

    if (arg_job_slots == INVALID_JOB_SLOTS)
        arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
    if (isatty (fileno (stdout)))
        if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
            {
                const char *tty = TTYNAME (fileno (stdout));
                define_variable_cname("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                    o_default, 0)->export = v_export;
            }
        if (isatty (fileno (stderr)))
            if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
                {
                    const char *tty = TTYNAME (fileno (stderr));
                    define_variable_cname("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                        o_default, 0)->export = v_export;
                }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);
/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '.
    makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}
#endif
/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);
/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}
if (ISDB (DB_BASIC))
    print_version ();
#ifndef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
(If it is a relative pathame with a slash, prepend our directory name
so the result will run the same program regardless of the current dir.
If it is a name with no slash, we can only hope that PATH did not
find it in the current directory.) */
#ifndef WINDOWS32
/* Convert from backslashes to forward slashes for
 programs like sh which don't like them. Shouldn't
 matter if the path is one way or the other for
 CreateProcess(). */
if (strpbrk (argv[0], "\"\") || strstr (argv[0], ".")
    || strneq (argv[0], "/", 2))
argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\'))
{
    char *p;

    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\')
            *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current directory. This can happen when Make is invoked by another DJGPP program that uses a non-absolute name. */
if (current_directory[0] != '0'
    && argv[0][0] != 0
    && argv[0][0] != '/' && (argv[0][0] == '0' || argv[0][1] != ':'))
#ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '>', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif
#else  /* !__MSDOS__ */
    if (current_directory[0] != '0'
        && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
        #ifdef HAVE_DOS_PATHS
        && (argv[0][0] != '\' && (!argv[0][0] || argv[0][1] != ':'))
        #endif
        && strchr (argv[0], '\') != 0)
#ifdef HAVE_DOS_PATHS
    && (argv[0][0] != '\' && (!argv[0][0] || argv[0][1] != ':'))
    #endif
#else  /* !__MSDOS__ */
    if (strchr (argv[0], '/') != 0 || strchr (argv[0], '\') != 0)
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set in the makefile, and we want to verify the authorization is valid before make has a chance to start using it for something else. */

if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
if (jobserver_parse_auth (jobserver_auth))
{
    /* Success! Use the jobserver. */
    job_slots = 0;
    goto job_setup_complete;
}

O (error, NILF, _('warning: jobserver unavailable: using -j1. Add `+` to parent make rule.'));
arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
    /* If restarts is >0 we already printed this message. */
    O (error, NILF,
        _('warning: -jN forced in submake: disabling jobserver mode.'));

    /* We failed to use our parent's jobserver. */
    reset_jobserver ();
    job_slots = (unsigned int)arg_job_slots;
} else if (arg_job_slots == INVALID_JOB_SLOTS)
    /* The default is one job at a time. */
    job_slots = 1;
else
    /* Use whatever was provided. */
    job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

    /* The extra indirection through $(MAKE_COMMAND) is done
     for hysterical raisins. */

#ifdef VMS
    if (vms_use_mcr_command)
        define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
    else
        define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
    define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
    define_variable_cname ("MAKE", "$\{MAKE_COMMAND\}", o_default, 1);

    if (command_variables != 0)
    {
        struct command_variable *cv;
        struct variable *v;
        unsigned int len = 0;
char *value, *p;

/* Figure out how much space will be taken up by the command-line
variable definitions. */
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}
/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = ':';
    *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';
}
p[-1] = '\0';  /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
makefile could validly use for its own variable. */
define_variable_cname ("-*command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
Normally a reference to this variable is written into the value of
MAKEFLAGS, allowing the user to override this value to affect the
exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
a reference to this hidden variable is written instead. */
define_variable_cname ("MAKEOVERRIDES", "$\{-*-command-variables-*\-\}",
o_env, 1);
#endif VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "$\{-*-command-variables-*\-\}"");
#endif

/* If there were -C flags, move ourselves about. */
if (directories != 0)
unsigned int i;
for (i = 0; directories->list[i] != 0; ++i)
{
    const char *dir = directories->list[i];

    #ifdef WINDOWS32
    /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
       But allow -C/ just in case someone wants that. */
    {
        char *p = (char *)dir + strlen (dir) - 1;
        while (p > dir && (p[0] == '/' || p[0] == '\'))
            --p;
        p[1] = '\0';
    }
    #endif
    if (chdir (dir) < 0)
        pfatal_with_name (dir);
}

    #ifdef WINDOWS32
    /* THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
     * TO NOT CONFUSE THE DEPENDENCY CHECKING CODE IN implicit.c.
     *
     * The functions in dir.c can incorrectly cache information for ".
     * before we have changed directory and this can cause file
     * lookups to fail because the current directory (.) was pointing
     * at the wrong place when it was first evaluated.
     */
    no_default_sh_exe = !find_and_set_default_shell (NULL);
    #endif /* WINDOWS32 */

    /* Except under -s, always do -w in sub-makes and under -C. */
    if (!silent_flag && (directories != 0 || makelevel > 0))
        print_directory_flag = 1;

    /* Let the user disable that with --no-print-directory. */
    if (inhibit_print_directory_flag)
        print_directory_flag = 0;

    /* If -R was given, set -r too (doesn't make sense otherwise!) */
    if (no_builtin_variables_flag)
        no_builtin_rules_flag = 1;

    /* Construct the list of include directories to search. */
    construct_include_path (include_directories == 0 ||
                          find_and_set_default_shell (NULL));
ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
    #ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "")
    #else
        OS (error, NILF, "getwd: %s", current_directory);
    #endif
        starting_directory = 0;
    }
else
    starting_directory = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '\0')
            { /* This makefile is standard input. Since we may re-exec and thus re-read the makefiles, we read standard input into a temporary file and read from that. */
                FILE *outfile;
                char *template;
                const char *tmpdir;

                if (stdin_nm)
                    O (fatal, NILF, ":Makefile from standard input specified twice.");

#ifndef VMS
    # define DEFAULT_TMPDIR  "/sys$scratch/"
#else
    # ifdef P_tmpdir
    # define DEFAULT_TMPDIR  P_tmpdir
#endif
# else
  # define DEFAULT_TMPDIR  "/tmp"
# endif
#endif
#define DEFAULT_TMPFILE  "GmXXXXXX"

  if (((tmpdir = getenv("TMPDIR")) == NULL || *tmpdir == '\0')
#if defined (__MSDOS__) || defined (WINDOWS32) || defined (__EMX__)
    /* These are also used commonly on these platforms. */
    && ((tmpdir = getenv("TEMP")) == NULL || *tmpdir == '\0')
    && ((tmpdir = getenv("TMP")) == NULL || *tmpdir == '\0')
  #endif
)
  tmpdir = DEFAULT_TMPDIR;

  template = alloca(strlen(tmpdir) + CSTRLEN(DEFAULT_TMPFILE) + 2);
  strcpy(template, tmpdir);
  #ifdef HAVE_DOS_PATHS
    if (strchr("/\", template[strlen(template) - 1]) == NULL)
      strcat(template, "/");
  #else
  # ifndef VMS
    if (template[strlen(template) - 1] != '/')
      strcat(template, "/");
  # endif /* !VMS */
  #endif /* !HAVE_DOS_PATHS */

  strcat(template, DEFAULT_TMPFILE);
  outfile = output_tmpfile(&stdin_nm, template);
  if (outfile == 0)
    pfatal_with_name(_("fopen (temporary file)"));
  while (!feof(stdin) && !ferror(stdin))
    {
      char buf[2048];
      unsigned int n = fread(buf, 1, sizeof(buf), stdin);
      if (n > 0 && fwrite(buf, 1, n, outfile) != n)
        pfatal_with_name(_("fwrite (temporary file)"));
    }
  fclose(outfile);

  /* Replace the name that read_all_makefiles will */
  /* see with the name of the temporary file. */
  /*
  makefiles->list[i] = strcache_add(stdin_nm);
  */
  /* Make sure the temporary file will not be remade. */
  
  struct file *f = enter_file(strcache_add(stdin_nm));
f->updated = 1;
f->update_status = us_success;
f->command_state = cs_finished;
/* Can't be intermediate, or it'll be removed too early for
make re-exec. */
f->intermediate = 0;
f->dontcare = 0;
}
}
}

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before
 reading in the makefiles so that 'shell' function calls will work.

If we don't have a hanging wait we have to fall back to old, broken
functionality here and rely on the signal handler and counting
children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is
not ignored; we need it to interrupt the read(2) of the jobserver pipe if
we're waiting for a token.

If none of these are true, we don't need a signal handler at all. */
{
#if defined SIGCHLD
    bsd_signal (SIGCHLD, child_handler);
#endif
#if defined SIGCLD && SIGCLD != SIGCHLD
    bsd_signal (SIGCLD, child_handler);
#endif
#endif
#endif

#ifndef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
sigset_t block;
sigemptyset (&block);
sigaddset (&block, SIGCHLD);
if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
    pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif
#endif
/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
be converted into pattern rules. We used to do this in
install_default Implicit_rules, but since that happens after reading
makefiles, it results in the built-in pattern rules taking precedence
over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
Also set up the $(-*-eval-flags-*-) variable. */
if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

    for (i = 0; i < eval_strings->idx; ++i)
    {
        p = xstrdup (eval_strings->list[i]);
        len += 2 * strlen (p);
        eval_buffer (p, NULL);
        free (p);
    }

    p = value = alloca (len);
    for (i = 0; i < eval_strings->idx; ++i)
{ 
    strcpy (p, "--eval="); 
    p += CSTRLEN ("--eval="); 
    p = quote_for_env (p, eval_strings->list[i]); 
    *(p++) = ' '; 
} 

p[-1] = '\0';

define_variable_cname ("-*eval-flags-*-", value, o_automatic, 0); 
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char * _path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;

    if (shv && *shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else
            unixy_shell = 0;
        if (shell_path)
            default_shell = shell_path;
    }
} #endif /* __MSDOS__ || __EMX__ */

{ 
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

    /* Decode switches again, for variables set by the makefile. */
}
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
    if (suffix_file->builtin)
    {
        free_dep_chain (suffix_file->deps);
        suffix_file->deps = 0;
    }
    define_variable_cname ("SUFFIXES", "", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
    undefine_default_variables ();

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
    if (arg_job_slots != 1
        # ifdef __EMX__
            && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
        # endif
        arg_job_slots = job_slots = 1;
    }
#endif

O (error, NILF,
    "("Parallel jobs (-j) are not supported on this platform.");
O (error, NILF, 
    "Resetting to single job (-j1) mode.");
arg_job_slots = job_slots = 1;
}
/* If we have >1 slot at this point, then we're a top-level make. 
Set up the jobserver.

Every make assumes that it always has one job it can run. For the submakes it's the token they were given by their parent. For the top make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync.
This is so people can enable output sync in GNUMAKEFLAGS or similar, but not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */
define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file depended on. Also do magic for special targets. */
snap_deps();

/* Convert old-style suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */
convert_to_pattern();

/* Install the default implicit pattern rules.
This used to be done before reading the makefiles.
But in that case, built-in pattern rules were in the chain
before user-defined ones, so they matched first. */
install_default_implicit_rules();

/* Compute implicit rule limits. */
count_implicit_rule_limits();

/* Construct the listings of directories in VPATH lists. */
build_vpath_lists();

/* Mark files given with -o flags as very old and as having been updated
already, and files given with -W flags as brand new (time-stamp as far
as possible into the future). If restarts is set we'll do -W later. */
if (old_files != 0)
{
    const char **p;
    for (p = old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}
/* Initialize the remote job module. */
remote_setup();

/* Dump any output we've collected. */

OUTPUT_UNSET();
output_close(&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **argv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, ("Updating makefiles....\n");

    /* Remove any makefiles we don't want to try to update. 
     * Also record the current modtimes so we can compare them later. */
    
    register struct goaldep *d, *last;
    last = 0;
    d = read_files;
    while (d != 0)
    {
        struct file *f = d->file;
        if (f->double_colon)
        for (f = f->double_colon; f != NULL; f = f->prev)
        {
            if (f->deps == 0 && f->cmds != 0)
            {
                /* This makefile is a :: target with commands, but 
                 * no dependencies. So, it will always be remade. 
                 * This might well cause an infinite loop, so don't 
                 * try to remake it. (This will only happen if 
                 * your makefiles are written exceptionally 
                 * stupidly; but if you work for Athena, that's how 
                 * you write your makefiles.) */

                DB (DB_VERBOSE,
                    ("Makefile '%s' might loop; not remaking it.\n"),

}
if (last == 0)
    read_files = d->next;
else
    last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
        (mm_idx+1) *
        sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);
{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
case us_question:
    /* The only way this can happen is if the user specified -q and asked
for one of the makefiles to be remade as a target on the command line. Since we're not actually updating anything with -q we can treat this as "did nothing". */

case us_none:
    /* Did nothing. */
    break;

case us_failed:
    /* Failed to update. Figure out if we care. */
    {
        /* Nonzero if any makefile was successfully remade. */
        int any_remade = 0;
        /* Nonzero if any makefile we care about failed in updating or could not be found at all. */
        int any_failed = 0;
        unsigned int i;
        struct goaldep *d;

        for (i = 0, d = read_files; d != 0; ++i, d = d->next)
            {
                if (d->file->updated)
                    {
                        /* This makefile was updated. */
                        if (d->file->update_status == us_success)
                            {
                                /* It was successfully updated. */
                                any_remade |= (file_mtime_no_search (d->file) != makefile_mtimes[i]);
                            }
                        else if (! (d->flags & RM_DONTCARE))
                            {
                                FILE_TIMESTAMP mtime;
                                /* The update failed and this makefile was not from the MAKEFILES variable, so we care. */
                                OS (error, NILF, _("Failed to remake makefile '%s'."),
                                    d->file->name);
                                mtime = file_mtime_no_search (d->file);
                                any_remade |= (mtime != NONEXISTENT_MTIME && mtime != makefile_mtimes[i]);
                                makefile_status = MAKE_FAILURE;
                            }
                    }
                else
                    /* This makefile was not found at all. */
                    if (! (d->flags & RM_DONTCARE))
                        {
                            const char *dnm = dep_name (d);
                        }
size_t l = strlen (dnm);

/* This is a makefile we care about. See how much. */
if (d->flags & RM_INCLUDED)
/* An included makefile. We don't need to die, but we
do want to complain. */
error (NILF, l,
    _("Included makefile '%s' was not found."), dnm);
else
{
/* A normal makefile. We must die later. */
error (NILF, l,
    _("Makefile '%s' was not found"), dnm);
    any_failed = 1;
}
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
goto re_exec;
if (any_failed)
die (MAKE_FAILURE);
break;
}

case US_SUCCESS:
re_exec:
/* Updated successfully. Re-exec ourselves. */
remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

clean_jobserver (0);

if (makefiles != 0)
{
/* These names might have changed. */
int i, j = 0;
for (i = 1; i < argc; ++i)
    if (strneq (argv[i], "-f", 2)) /* XXX */
        if (argv[i][2] == '0')
            /* This cast is OK since we never modify argv. */
                argv[++i] = (char *) makefiles->list[j];
else
    argv[i] = xstrdup (concat (2, ",-f", makefiles->list[jj]));
    ++j;
}

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    argv = m;
    memcpy (argv, argv, argc * sizeof (char *));
    argv[nargc++] = xstrdup (concat (2, ",-o", stdin_nm));
    argv[nargc] = 0;
    nargv = m;
} else
    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)
            perror_with_name ("chdir", ",");
        else
            bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory.");
    }
++restarts;

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[\%u]:"), restarts);
    for (p = nargv; *p != 0; ++p)
        printf (" %s", *p);
    putchar (',');
    fflush (stdout);
}

#endif

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{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=" MAKELEVEL_LENGTH+1))
        {
            *p = alloca (40);
            sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
            #ifdef VMS
                vms_putenv_symbol (*p);
            #endif
        }
        else if (strneq (*p, "MAKE_RESTARTS=" CSTRLEN \("MAKE_RESTARTS="\)))
        {
            *p = alloca (40);
            sprintf (*p, "MAKE_RESTARTS=%s%u", OUTPUT_IS_TRACED () ? "-" : "," restarts);
            restarts = 0;
        }
    }
    #else /* AMIGA */
    {
        char buffer[256];
        sprintf (buffer, "%u", makelevel);
        SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);
        sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
        SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
        restarts = 0;
    }
    #endif

    /* If we didn't set the restarts variable yet, add it. */
    if (restarts)
    {
        char *b = alloca (40);
        sprintf (b, "MAKE_RESTARTS=%s%u", OUTPUT_IS_TRACED () ? "-" : ",", restarts);
        putenv (b);
    }

    fflush (stdout);
    fflush (stderr);
    #ifdef _AMIGA
        exec_command (nargv);
    #ifdef _AMIGA
        exec_command (nargv);
    #endif
}
exit (0);
#else defined (__EMX__)
{
/* It is not possible to use execve() here because this
would cause the parent process to be terminated with
exit code 0 before the child process has been terminated.
Therefore it may be the best solution simply to spawn the
child process including all file handles and to wait for its
termination. */
int pid;
int r;
pid = child_execute_job (NULL, 1, argv, environ);

/* is this loop really necessary? */
do {
    pid = wait (&r);
} while (pid <= 0);
/* use the exit code of the child process */
exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
}
#else
#ifdef SET_STACK_SIZE
/* Reset limits, if necessary. */
if (stack_limit.rlim_cur)
    setrlimit (RLIMIT_STACK, &stack_limit);
#endif
exec_command ((char **)argv, environ);
#endif
free (argv);
break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
struct file *f = enter_file (*p);
f->last_mtime = f->mtime_before_update = NEW_MTIME;
}

/* If there is a temp file from reading a makefile from stdin, get rid of it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                              strlen (default_goal_var->value));

        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

            ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
            if (ns)
            {
                /* .DEFAULT_GOAL should contain one target. */
                if (ns->next != 0)
                    O (fatal, NILF, _(".DEFAULT_GOAL contains more than one target");

                f = enter_file (strcache_add (ns->name));

                ns->name = 0; /* It was reused by enter_file(). */
                free_ns_chain (ns);
            }
        }
    }
if (f)
{
    goals = alloc_goaldep ();
    goals->file = f;
}
}
else
lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets");
}

/* Update the goals. */

DB (DB_BASIC, _("Updating goal targets...
"));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:
            /* We are under -q and would run some commands. */
            makefile_status = MAKE_TROUBLE;
            break;
        case us_failed:
            /* Updating failed. POSIX.2 specifies exit status >1 for this; */
            makefile_status = MAKE_FAILURE;
            break;
    }

    /* If we detected some clock skew, generate one last warning */
    if (clock_skew_detected)
        O (error, NILF,
            _("warning:  Clock skew detected.  Your build may be incomplete.
"));
/* Exit. */
die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches. */

static char options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
                                 (sizeof (long_option_aliases) /
                                  sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
  char *p;
  unsigned int c;
  unsigned int i;

  if (options[0] != '\0')
    /* Already done. */
    return;

  p = options;

  /* Return switch and non-switch args in order, regardless of
   * POSIXLY_CORRECT. Non-switch args are returned as option 1. */
  *p++ = '-';

  for (i = 0; switches[i].c != '\0'; ++i)
    {
      long_options[i].name = (switches[i].long_name == 0 ? "" : switches[i].long_name);
      long_options[i].flag = 0;
      long_options[i].val = switches[i].c;
      if (short_option (switches[i].c))
        *p++ = switches[i].c;
      switch (switches[i].type)
        {
        case flag:
          case flag_off:
            case ignore:
              long_options[i].has_arg = no_argument;
              break;
          case ...:
break;
case string:
case strlist:
case filename:
case positive_int:
case floating:
if (short_option (switches[i].c))
*p++ = ':';
if (switches[i].noarg_value != 0)
{
if (short_option (switches[i].c))
*p++ = ':';
long_options[i].has_arg = optional_argument;
}
else
long_options[i].has_arg = required_argument;
break;
}
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
sizeof (long_option_aliases[0]));
++c)
long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const char *arg, int env)
{
struct variable *v;
if (arg[0] == '-' && arg[1] == '\0')
/* Ignore plain '-' for compatibility. */
return;
#ifdef VMS
{
/* VMS DCL quoting can result in foo="bar baz" showing up here.
Need to remove the double quotes from the value. */
char * eq_ptr;
char * new_arg;
eq_ptr = strchr (arg, '=');
if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
{

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int len;
int seg1;
int seg2;
len = strlen(arg);
new_arg = alloca(len);
seg1 = eq_ptr - arg + 1;
strncpy(new_arg, arg, (seg1));
seg2 = len - seg1 - 1;
strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
new_arg[seg1 + seg2] = 0;
if (new_arg[seg1 + seg2 - 1] == '')
    new_arg[seg1 + seg2 - 1] = 0;
arg = new_arg;
}
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition.  If we don't already have this
one, record a pointer to the variable for later use in
    define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
        cv->next = command_variables;
        command_variables = cv;
    }
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
    target! Enter it as a file and add it to the dep chain of
goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
lastgoal->file = f;

/* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
    value = f->name;
else
    /* Paste the old and new values together */
    unsigned int oldlen, newlen;
    char *vp;

    oldlen = strlen (gv->value);
    newlen = strlen (f->name);
    vp = alloca (oldlen + 1 + newlen + 1);
    memcpy (vp, gv->value, oldlen);
    vp[oldlen] = ' ';
    memcpy (&vp[oldlen + 1], f->name, newlen + 1);
    value = vp;

    define_variable_cname ("MAKECMDGOALS", value, o_default, 0);

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

    /* Print a nice usage method. */

    static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version ();

    usageto = bad ? stderr : stdout;

*/
fprintf (usageto, _("Usage: %s [options] [target] ...
"), program);

for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("This program built for %s
"), make_host);
else
    fprintf (usageto, _("This program built for %s (%s)
"),
        make_host, remote_description);

fprintf (usageto, _("Report bugs to <bug-make@gnu.org>
"));
}

/* Decode switches from ARGC and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
    int bad = 0;
    register const struct command_switch *cs;
    register struct stringlist *sl;
    register int c;

    /* getopt does most of the parsing for us.
       First, get its vectors set up. */
    init_switches ();

    /* Let getopt produce error messages for the command line,
       but not for options from the environment. */
    opterr = !env;
    /* Reset getopt's state. */
    optind = 0;

    while (optind < argc)
    {
        const char *coptarg;

        /* Parse the next argument. */
        c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
        coptarg = optarg;
        if (c == EOF)
            /* End of arguments, or "--" marker seen. */
            break;
        else if (c == 1)
/* An argument not starting with a dash. */
handle_non_switch_argument (coptarg, env);
else if (c == "?")
/* Bad option. We will print a usage message and die later. 
But continue to parse the other options so the user can 
see all he did wrong. */
bad = 1;
else
for (cs = switches; cs->c != '\0'; ++cs)
if (cs->c == c)
{
    /* Whether or not we will actually do anything with 
this switch. We test this individually inside the 
switch below rather than just once outside it, so that 
options which are to be ignored still consume args. */
    int doit = !env || cs->env;

    switch (cs->type)
    {
    default:
        abort ()
        break;

    case ignore:
        break;

    case flag:
    case flag_off:
        if (doit)
            *(int *) cs->value_ptr = cs->type == flag;
        break;

    case string:
    case strlist:
    case filename:
        if (!doit)
            break;

        if (! coptarg)
            coptarg = xstrdup (cs->noarg_value);
        else if (*coptarg == '\0')
            {
                char opt[2] = "c";
                const char *op = opt;

                if (short_option (cs->c))
                    opt[0] = cs->c;
                else
                    op = cs->long_name;
            }

    }
error (NILF, strlen (op),
    _("the '%s%s' option requires a non-empty string argument"),
    short_option (cs->c) ? "-" : "--", op);
bad = 1;
break;
}

if (cs->type == string)
{
    char **val = (char **)cs->value_ptr;
    free (*val);
    *val = xstrdup (coptarg);
    break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
    sl = xmalloc (sizeof (struct stringlist));
    sl->max = 5;
    sl->idx = 0;
    sl->list = xmalloc (5 * sizeof (char *));
    *(struct stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{
    sl->max += 5;
    /* MSVC erroneously warns without a cast here. */
    sl->list = xrealloc ((void *)sl->list,
        sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
    /* See if we have an option argument; if we do require that
    it's all digits, not something like "10foo". */
    if (coptarg == 0 & argc > optind)
    {
        const char *ep;
        for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
            ;
        if (cp[0] == '0')
coptarg = argv[optind++];
}

if (!doit)
break;

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

    /* Yes, I realize we're repeating this in some cases. */
    for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
    {
        if (i < 1 || cp[0] != '0')
            bad = 1;
    }
else
    *(unsigned int *) cs->value_ptr = i;
else
    *(unsigned int *) cs->noarg_value;
break;

#ifndef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
            = (coptarg != 0 ? atof (coptarg)
                : *(double *) cs->noarg_value);
break;
#endif
}

/* We've found the switch. Stop looking. */
break;
while (optind < argc)
    handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage (bad);
    die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long). We do this by chopping the value into a vector of words, prepending a dash to the first word if it lacks one, and passing the vector to decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
    char *varref = alloca (2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(':  
    strncpy (&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = '\0';
    value = variable_expand (varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN (value);
    len = strlen (value);
    if (len == 0)
        return;

    /* Allocate a vector that is definitely big enough. */
argv = alloca ((1 + len + 1) * sizeof (char *));

/* getopt will look at the arguments starting at ARGV[1].
   Prepend a spacer word. */
argv[0] = 0;
argc = 1;

/* We need a buffer to copy the value into while we split it into words
   and unquote it. Set up in case we need to prepend a dash later. */
buf = alloca (1 + len + 1);
buf[0] = '\';
p = buf+1;
argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\' && value[1] != '\0')
        ++value; /* Skip the backslash. */
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
        ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p++ = *value++;
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=')) == 0)
/* The first word doesn't start with a dash and isn't a variable
   definition, so add a dash. */
argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */
static char *
quote_for_env (char *out, const char *in)
{
while (*in != '\0')
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\\')
*out++ = '\\';
*out++ = *in++;
}
return out;
}
/* Define the MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */
static struct variable *
define_makeflags (int all, int makefile)
{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)";
const char evalref[] = "$(-*-eval-flags-*-)";
const struct command_switch *cs;
char *flagstring;
char *p;
/* We will construct a linked list of 'struct flag's describing
all the flags which need to go in MAKEFLAGS. Then, once we
know how many there are and their lengths, we can put them all
together in a string. */
struct flag
{
struct flag *next;
const struct command_switch *cs;
const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
\
struct flag *new = alloca (sizeof (struct flag));
new->cs = cs;
new->arg = (ARG);

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\


new->next = 0;                          
if (! flags)                                
    flags = new;                            
else                                         
    last->next = new;                       
last = new;                                  
if (new->arg == 0)                        
    /* Just a single flag letter: -x */     
    flagslen += 3;                           
else                                         
    /* -xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));     
if (!short_option (cs->c))                 
    /* This switch has no single-letter version, so we use the long. */ 
    flagslen += 2 + strlen (cs->long_name); 
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
    if (cs->toenv && (!makefile || !cs->no_makefile))
        switch (cs->type)
        {
        case ignore:
            break;

        case flag:
            case flag_off:
                if ( (!(int *) cs->value_ptr) == (cs->type == flag_off)
                    && (cs->default_value == 0
                        || *(int *) cs->value_ptr != *(int *) cs->default_value))
                    ADD_FLAG (0, 0);
                break;

        case positive_int:
            if (all)
            {
                if ((cs->default_value != 0
                    && *(unsigned int *) cs->value_ptr
                        == *(unsigned int *) cs->default_value))
                    break;
            else if (cs->noarg_value != 0
                        && *(unsigned int *) cs->value_ptr == *(unsigned int *) cs->noarg_value)
                    ADD_FLAG (",", 0); /* Optional value omitted; see below. */
            else
                { char *buf = alloca (30);
                    sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
                    ADD_FLAG (buf, strlen (buf));
                }
        

break;

#ifndef NO_FLOAT

case floating:
    if (all)
    {
      if (cs->default_value != 0
       && (*double *) cs->value_ptr
       == *double cs->default_value))
        break;
      else if (cs->noarg_value != 0
                  && (*double *) cs->value_ptr
                  == *(double *) cs->noarg_value))
        ADD_FLAG ("", 0); /* Optional value omitted; see below. */
      else
      {
        char *buf = alloca (100);
        sprintf(buf, "%g", *(double *) cs->value_ptr);
        ADD_FLAG (buf, strlen(buf));
      }
    }
    break;
#endif

case string:
    if (all)
    {
      char **p = *(char **) cs->value_ptr;
      if (p)
        ADD_FLAG (p, strlen(p));
    }
    break;

case filename:

    case strlist:
      if (all)
      {
        struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
        if (sl != 0)
        {
          unsigned int i;
          for (i = 0; i < sl->idx; ++i)
            ADD_FLAG (sl->list[i], strlen(sl->list[i]));
        }
      }
      break;
default:
    abort ();
}

#undef  ADD_FLAG

/* Four more for the possible " -- ", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = ' -';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' -';
    *p++ = ' -';

    /* Add the flag letter or name to the string. */
    if (short_option (flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = ' -';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }

    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && !flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
            /* Long options require '='. */
            *p++ = '=';
    }
p = quote_for_env (p, flags->arg);
}
flags = flags->next;

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
  flagstring[0] = '0';
p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial empty dash. Since MFLAGS is not parsed for flags, there is no reason to override any makefile redefinition. */
define_variable_cname ("MFLAGS",
  flagstring + (flagstring[0] == '-' && flagstring[1] == ' ' ? 2 : 0),
  o_env, 1);

/* Write a reference to -*-eval-flags-*-, which contains all the --eval flag options. */
if (eval_strings)
{
  *p++ = ' ';
  memcpy (p, evalref, CSTRLEN (evalref));
p += CSTRLEN (evalref);
}

if (all && command_variables)
{
  /* Write a reference to $(MAKEOVERRIDES), which contains all the command-line variable definitions. Separate the variables from the switches with a "--" arg. */
  strcpy (p, " -- ");
p += 4;

  /* Copy in the string. */
  if (posix_pedantic)
  {
    memcpy (p, posixref, CSTRLEN (posixref));
p += CSTRLEN (posixref);
  }
  else
  {
    memcpy (p, ref, CSTRLEN (ref));
p += CSTRLEN (ref);
  }
}
/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
  ++flagstring;

/* This used to use o_env, but that lost when a makefile defined MAKEFLAGS. 
Makefiles set MAKEFLAGS to add switches, but we still want to redefine 
its value with the full set of switches. Then we used o_file, but that 
lost when users added -e, causing a previous MAKEFLAGS env. var. to take 
predence over the new one. Of course, an override or command 
definition will still take precedence. */
return define_variable_cname("MAKEFLAGS", flagstring,
    env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */
static void
print_version (void)
{
  static int printed_version = 0;

  const char *precede = print_data_base_flag ? "# " : "";

  if (printed_version)
    /* Do it only once. */
    return;

  printf ("%sGNU Make %s\n", precede, version_string);

  if (!remote_description || *remote_description == '\0')
    printf (_("%SBuilt for %s\n"), precede, make_host);
  else
    printf (_("%SBuilt for %s (%s)\n"),
        precede, make_host, remote_description);

  /* Print this untranslated. The coding standards recommend translating the 
(C) to the copyright symbol, but this string is going to change every 
year, and none of the rest of it should be translated (including the 
word "Copyright"), so it hardly seems worth it. */

  printf (_("%SCopyright (C) 1988-2016 Free Software Foundation, Inc.\n"),
      precede);

  printf (_("%SLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\n%SThis is free software; you are free to change and redistribute it.\n%SThere is NO WARRANTY, to the extent permitted by law.\n"),

precede, precede, precede);

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base (void)
{
  time_t when = time ((time_t *) 0);

  print_version ();

  printf (_("\n# Make data base, printed on %s"), ctime (&when));

  print_variable_data_base ();
  print_dir_data_base ();
  print_rule_data_base ();
  print_file_data_base ();
  print_vpath_data_base ();
  strcache_print_stats ("#");

  when = time ((time_t *) 0);
  printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
  /* Sanity: have we written all our jobserver tokens back? If our exit status is 2 that means some kind of syntax error; we might not have written all our tokens so do that now. If tokens are left after any other error code, that's bad. */

  if (jobserver_enabled() && jobserver_tokens)
  {
    if (status != 2)
      ON (error, NILF,
        "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
        jobserver_tokens);
    else
      /* Don't write back the "free" token */
      while (--jobserver_tokens)
jobserver_release (0);
}

/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver ()
    }
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ()

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
        {
            /* Remove the intermediate files. */
            remove_intermediates (0);

            if (print_data_base_flag)
print_data_base();

if (verify_flag)
    verify_file_data_base();

clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
     $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

    OUTPUT_UNSET();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
 MS-DOS (where there is really only one process), and on Unix it
 puts core files in the original directory instead of the -C
 directory. Must wait until after remove_intermediates(), or unlinks
 of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}

exit (status);
}

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Gocheck - A rich testing framework for Go

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

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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//For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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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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1.38 strace 5.3 r0

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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1.45 jemalloc 4.0.4 r0
1.45.1 Available under license :

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1.46 dc 1.4
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  * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
    DCPathButton-ecfc086/Example-Swift/Example-Swift/AppDelegate.swift
  * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
    DCPathButton-ecfc086/Example-Swift/Example-Swift-Bridging-Header.h
  * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
    DCPathButton-ecfc086/Example-SwiftTests/Example_SwiftTests.swift
  * /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-
    DCPathButton-ecfc086/Example-SwiftTests/Example_SwiftTests.swift

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Pod::Spec.new do |s|
  s.name         = "DCPathButton"
  s.version      = "2.1.1"
  s.summary      = " A beautiful button copy from Path® "
  s.description  = <<-DESC
DCPathButton is a menu button, design by an famous App Path®.
Since Path® 4.0, it return to use a tab bar instead of a side bar,
and also change the menu button. So I try to implement it and then
the DCPathButton born :)  
DESC
DCPathButton-ecfc086/Example/Example/BarButtonItemViewController.m
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Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/LICENSE
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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/README.md
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/DCPathButton/README.md
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<string>The DCPathButton use the MIT license</string>

Found in path(s):
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/Pods-acknowledgements.plist
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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Example/ViewController.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Example/ViewController.m
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Example/AppDelegate.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/TangdixiDCPathButton-ecfc086/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
1.47 libusb-compat 0.1.5 r0

1.47.1 Available under license:

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1.48 json-c 0.99.8-2.el8
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1.49 glib 2.56.4-8.el8

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1.51 libpwquality 1.4.4-1.el8

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* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/Makefile.binos
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/*
 * pw_const.tph
 *
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 */

@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
} @

@IMPORT_STG{
    import "constant_gen.stg";
} @

@TDL{
    import "pw_const.tdl"
} @

@CODE{
#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

$constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

} @

Found in path(s):
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_const.tph
No license file was found, but licenses were detected in source scan.
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 * pw_defs.h
 *
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 */

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* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw_defs.h
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/ *
 * pw.h
 *
 * Password routines, adopted from IOX
 *
 * May 2000 Mark Eklund
 * July 2005, Craig MacFarlane
 *
 * All rights reserved.
 */
/*
 * edt: * pw_type_t
 *     Possible formats of saving the password in SysDB.
 *
 * item: PW_TYPE_CLEAR
 *     The password in the clear, visible for anybody.
 *
 * item: PW_TYPE_1WAY
 *     The password encrypted to an MD5 digest. This is not reversible.
 *
 * item: PW_TYPE_1WAY_2
 *     The password encrypted to an sha256 digest. This is not reversible.
 *
 * item: PW_TYPE_2WAY
 *     The Cisco type 7 password encryption. This is reversible
 *     by both Cisco products and several public domain programs.
 */

Found in path(s):
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/include/pw.h
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/*
 * pw.c
 *
 * AAA password routines, adopted from IOX
 *
 * January 2005, Naiming Shen
 * July 2005, Craig MacFarlane
 *
 * All rights reserved.
 *
 *------------------------------------------------------------------
 * pw.c -- password encryption/decryption routines
 *
 * May 08 2000, Mark Eklund
 *
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450000_1615189192.83/0/pw-tar/pw/src/pw.c

1.52 rsync 3.1.3 r0

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

<one line to give the program's name and a brief idea of what it does.>
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1.57 telnet 0.17-73.el8

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

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

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compilation
and installation of the library.

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

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1.62 libsemanage 2.9-1.el8

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1.64 ini-parser 2.8
1.64.1 Available under license:

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1.65 go git r0
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1.67 freebsd-tty-headers n/a

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*     @(#)ttycom.h  8.1 (Berkeley) 3/28/94
* $FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp $
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*      @(#)ttychars.h  8.2 (Berkeley) 1/4/94
* $FreeBSD: src/sys/sys/ttychars.h,v 1.7 1999/08/28 00:52:06 peter Exp $
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1.68 cronie 1.5.2 4.el8

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*@(#)bitstring.h 8.1 (Berkeley) 7/19/93
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1.73 util-linux 2.34 r0
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1.74 pythonurllib 1.25.8 r0
1.74.1 Available under license:
   # Contributions to the urllib3 project

   ## Creator & Maintainer
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   ## Contributors
   In chronological order:
   * victor.vde <http://code.google.com/u/victor.vde/>
   * HTTPS patch (which inspired HTTPSConnectionPool)
   * erikcederstrand <http://code.google.com/u/erikcederstrand/>
   * NTLM-authenticated HTTPSConnectionPool
   * Basic-authenticated HTTPSConnectionPool (merged into make_headers)
   * niphlod <niphlod@gmail.com>
   * Client-verified SSL certificates for HTTPSConnectionPool
   * Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

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

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

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

* georgemarshall <https://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@ravelosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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

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

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

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

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

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

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

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

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

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

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

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

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

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

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

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

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

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

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

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

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

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

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

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

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

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

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

* Moinuddin Quadri <moinl8@gmail.com>
* Lazily load idna package

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

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

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

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

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

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

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

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

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

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

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

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

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

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

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

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

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

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

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1.75 ncurses 6.1 7.20180224.el8

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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  * Small patch to fix Python CallMethod().
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  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
text format.

Brian Atkinson <naibr774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.

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Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing
  all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
  once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
1.78 policycoreutils 2.8 r0
1.78.1 Available under license:

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Ty Coon, President of Vice

That's all there is to it!

1.82 libfastjson 0.99.8 2.el8
1.82.1 Available under license:

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1.83 ipch 8.3
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*
*@(#)ipc.h8.3 (Berkeley) 1/21/94
*/

1.84 iptables 1.8.4-16.el8
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(include systemd-common)

```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-preset/90-systemd.preset
usr/lib/systemd/system-preset/90-systemd.preset
/usr/lib/systemd/system/tmp.mount
infra/systemd/sysinit.target
infra/systemd/cpld-symlink.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald.service
/usr/lib/systemd/system/systemd-journald.service
infra/systemd/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/systemd-journald-audit.socket
/usr/lib/systemd/system/systemd-journald-audit.socket
```

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* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd

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(include systemd-common)

```
intra/systemd/switchroot/sysinit.target
infra/systemd/switchroot/systemd-journald.service
infra/systemd/switchroot/systemd-timedated.service
infra/systemd/switchroot/systemd-udevd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald-audit.socket
```

Found in path(s):
* /opt/cola/permits/1130450074_1615190715.28/0/iptables-tar/linux-system/systemd-swrt

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(include all-common)

(include systemd-swrt)

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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/1130450074_1615190715.28/0/iptables-tar/linux-system/nfsV4/nfs-utils
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linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/bin/journalctl                                     usr/bin/journalctl
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/bin/systemctl                                      usr/bin/systemctl
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/bin/systemd-inhibit                                usr/bin/systemd-inhibit
linkfarm/${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}${SDK}/etc/systemd/user.conf  
linkfarm/${SYSROOT}${ARCH}${SDK}/etc/udev/udev.conf  
/etc/systemd/journald.conf  
/etc/systemd/system.conf  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/remote-fs.target  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/rescue.service  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/shutdown.target  
/linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/slices.target
usr/lib/systemd/system/systemd-journald.socket
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-kexec.service
usr/lib/systemd/system/systemd-kexec.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-modules-load.service
usr/lib/systemd/system/systemd-modules-load.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-poweroff.service
usr/lib/systemd/system/systemd-poweroff.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-reboot.service
usr/lib/systemd/system/systemd-reboot.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-sysctl.service
usr/lib/systemd/system/systemd-sysctl.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-tmpfiles-setup-dev.service
usr/lib/systemd/system/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/systemd-bootchart
usr/lib/systemd/systemd-bootchart
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/systemd-socket-activate
usr/bin/systemd-socket-activate
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-fsck
usr/lib/systemd/systemd-fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-journald
usr/lib/systemd/systemd-journald
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-modules-load
usr/lib/systemd/system/systemd-modules-load
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-shutdown
usr/lib/systemd/system/systemd-shutdown
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-sysctl
usr/lib/systemd/system/systemd-sysctl
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/systemd-udevd
usr/lib/systemd/system/systemd-udevd
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#files related to nfs-statd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/rpc.statd                       ussr/sbin/rpc.statd
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/sm-notify                      ussr/sbin/sm-notify
infra/systemd/nfs-statd.service                                            ussr/lib/systemd/system/nfs-statd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/nfsstat                         ussr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/sbin/rpc.idmapd                      ussr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount                                  ussr/lib/systemd/system/var-lib-nfs-rpc_pipefs.mount
# The directory for plugin is fix to /usr/lib/libnfsidmap
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/usr/$[LIB]/libnfsidmap/nsswitch.so        ussr/lib/libnfsidmap/nsswitch.so
linkfarm/$[SYSROOT]$[ARCH]$[SDK]/etc/idmapd.conf                         etc/idmapd.conf
infra/systemd/nfs-idmapd.service                                            ussr/lib/systemd/system/nfs-idmapd.service
contrib/initscripts/binos/etc/$[NFS_VER]/nfs-utils.conf                  etc/nfs-utils.conf

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linkfarm/$(SYSROOT)/$(ARCH)/usr/bin/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 pcpu)
(include psmisc)
(include procps)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(include systemctl)
(include sysvinit)
(include tcpsnoop)
(include tcpdump)
(include tftp-hpa)
(include traceroute)
(include util-linux)

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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}${SDK}/usr/sbin/agetty    usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev  usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk    usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel    usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk     usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fsck      usr/sbin/fsck
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock   usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap    usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root    usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk    usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff   usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon    usr/sbin/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/colcrt     usr/bin/colcrt
Found in path(s):
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#include all-common

#include 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

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

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatible 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 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
/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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#
# 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/1130450074_1615190715.28/0/iptables-tar/linux-system/iputils

1.85 cjson 1.7.10+gitAUTOINC+c69134d017 r0

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1.88 python3-py 1.8.0 r0

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1.89 base-passwd 3.5.29 r0

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
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"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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Thus, it is not the intent of this section to claim rights or contest
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1.96 libnl3 3.5.0 r0

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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   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.

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4. You may copy and distribute the Library (or a portion or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
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^L

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<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
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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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.

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

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

Discussion thread from mailing list archive, with approval from everyone actively 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
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Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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=20

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Nathan Neulinger EMail: nneul@um...
> -----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
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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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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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
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> Cc: cracklib-devel@li...; Alec Muffett
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place of a
library to dictact to application writes what license they should
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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
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-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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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
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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 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
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

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> 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
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> > 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 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 scanipv5.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 l91Gxptr020623
     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 1CcOCX-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-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
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

Open Source Used In Cat9K 17.7.1 1326
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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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan

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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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> >> 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 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 ESMTPT id 191Gxptr020623
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 4.5)
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>
<EC90713277D2BE41B7110CCD74E235CE4F4F38@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-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
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? :-)
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
Fry sing, 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
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, 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
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
Nieuwma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, 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
Snechez, 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.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
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, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Kecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frederic
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
Uranga, Mikel Olasagasti
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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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
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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1.101 regex 3.8a

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1.102 go-cli
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1.103 python-asn1crypto 1.0.1 r0

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1.104 parson 1.0

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Parson ( http://kgabis.github.com/parson/ )
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*/

#ifndef parson_parson_h
#define parson_parson_h

#ifdef __cplusplus
extern "C"
{
#include <stddef.h>   /* size_t */

/* Types and enums */
typedef struct json_object_t JSON_Object;
typedef struct json_array_t JSON_Array;
typedef struct json_value_t JSON_Value;
typedef enum json_value_type {
    JSONError   = 0,
    JSONNull    = 1,
    JSONString  = 2,
    JSONArray   = 3,
    JSONObject  = 4,
}
JSONObject = 5,
JSONBoolean = 6
} JSON_Value_Type;

/* Parses first JSON value in a file, returns NULL in case of error */
JSON_Value * json_parse_file(const char *filename);

/* Parses first JSON value in a string, returns NULL in case of error */
JSON_Value * json_parse_string(const char *string);

/* JSON Object */
JSON_Value * json_object_get_value (const JSON_Object *object, const char *name);
const char * json_object_get_string (const JSON_Object *object, const char *name);
JSON_Object * json_object_get_object (const JSON_Object *object, const char *name);
JSON_Array * json_object_get_array (const JSON_Object *object, const char *name);
double json_object_get_number (const JSON_Object *object, const char *name);
int json_object_get_boolean(const JSON_Object *object, const char *name);

/* dotget functions enable addressing values with dot notation in nested objects,
just like in structs or c++/java/c# objects (e.g. objectA.objectB.value).
Because valid names in JSON can contain dots, some values may be inaccessible
this way. */
JSON_Value * json_object_dotget_value (const JSON_Object *object, const char *name);
const char * json_object_dotget_string (const JSON_Object *object, const char *name);
JSON_Object * json_object_dotget_object (const JSON_Object *object, const char *name);
JSON_Array * json_object_dotget_array (const JSON_Object *object, const char *name);
double json_object_dotget_number (const JSON_Object *object, const char *name);
int json_object_dotget_boolean(const JSON_Object *object, const char *name);

/* Functions to get available names */
size_t json_object_get_count(const JSON_Object *object);
const char * json_object_get_name (const JSON_Object *object, size_t index);

/* JSON Array */
JSON_Value * json_array_get_value (const JSON_Array *array, size_t index);
const char * json_array_get_string (const JSON_Array *array, size_t index);
JSON_Object * json_array_get_object (const JSON_Array *array, size_t index);
JSON_Array * json_array_get_array (const JSON_Array *array, size_t index);
double json_array_get_number (const JSON_Array *array, size_t index);
int json_array_get_boolean(const JSON_Array *array, size_t index);
size_t json_array_get_count (const JSON_Array *array);

/* JSON Value */
JSON_Value_Type json_value_get_type (const JSON_Value *value);
JSON_Object * json_value_get_object (const JSON_Value *value);
JSON_Array * json_value_get_array (const JSON_Value *value);
const char * json_value_get_string (const JSON_Value *value);
double json_value_get_number (const JSON_Value *value);
int     json_value_get_boolean(const JSON_Value *value);
void    json_value_free   (JSON_Value *value);

#ifdef __cplusplus
}
#endif
#endif

1.105 go-systemd
4+gitb4a58d95188dd092ae20072bac14cece0e
67c388 r0

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1.106 attr 2.4.48 3.el8

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1.107 gawk 4.2.1-1.el8

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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1.110 keyutils 1.5.10 6.el8

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1.112 python-wcwidth 0.1.7 r0

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1.113 lm-sensors 3.5.0 r0
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
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  Support for multiple configuration files in libsensors.

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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:

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I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

1.116 ima-evm-utils 1.1 5.el8

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That's all there is to it!

1.122 semodule-utils 2.8 r0
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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

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Version 2, June 1991

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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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.

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

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

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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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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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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(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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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
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1.129 fdisk 2.32.1

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 *
 * File Name: ioLib.s
 *
 * Function: C-callable assembler functions for I/O.
 *
 * Author: Bill DeStein.
 *
 * Change Activity-
 *
 * Date        Description of Change                           BY
 * ---------    ---------------------                           ---
 * 13-Aug-92    Created                                            WCD
 * 27-May-94    Port to Oak                                        MPT
 * 24-Apr-95    Port to Metaware                                    JWB
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>>> base64.c-none
>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> convertutf.c/.h from unicode, inc.-none

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1.139 python3-certifi 2019.11.28 r0

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*
* @(#)bpf.h 7.1 (Berkeley) 5/7/91
*
* @(#) SHeader: /tcpdump/master/libpcap/pcap-bpf.h,v 1.34 2005/02/08 20:03:15 guy Exp $ (LBL)
1.142 shadow-utils 4.6-12.el8

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  *
  * File:        port.c
  * Purpose:     Manages untagged priority setting for port
  */

Found in path(s):
* /opt/cola/permits/1130449954_1615183583.0/0/shadow-tar/shadow/port.c

1.143 libgcrypt 1.8.5 4.el8
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1.151 python-pycrypto 2.6.1 r0
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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
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    Received: from m14.itconsult.co.uk (m14.itconsult.co.uk [193.201.42.13])
    by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
    for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
    Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
    [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
    15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
    Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
    designates 64.5.53.201 as permitted sender) identity=mailfrom;
    client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
    helo=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
    Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
    m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
    taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
    Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
    by goedel.dlitz.net (Postfix, from userid 1000)
    id B92F8C66420; Wed, 27 Aug 2008 20:42:56 -0600 (CST)
    Received: by rivest.dlitz.net (Postfix, from userid 1000)
    id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0600 (CST)
    Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000);
Date: Wed, 27 Aug 2008 20:42:54 -0600
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
-----BEGIN PGP SIGNED MESSAGE-----

########################################################
#
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#   dlitz@dlitz.net
# requested that this message be sent to:-
#   crypt@bis.doc.gov
#   enc@nsa.gov
#   web_site@bis.doc.gov
#   pycrypto@lists.dlitz.net
#   PYTHON-CRYPTO@NIC.SURFNET.NL
#   dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
#   http://www.itconsult.co.uk/stamper.htm
#
########################################################

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

-----END PGP SIGNED MESSAGE-----
NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnhVwth+BAEQeCuwf9EEnXLqSO5bPzR9K9QnTpcsKbTljKjPxrd+q0E7eE8VnvvijUcTAR9o27yvzOPxdFT864MQA70TSbkPK39aGAgA4fgAgvYH9tUNjJkv8QLz/aq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGpVh1gKqyJu45L+doqxsbzCOpgjRv2xDdNR/2SnFmDWQxv8dSeonwIHpQDfI8/LVA/gHiTDmteQI0hJQ6oXYhY+HbRjsD741/GSpO9IlNSh0UgshFoLndnNSA0vWf4aPyh5KCN7ho+BC0v/W/pqSIIPkwnnbHPHoIltTkNc0qKLAHXqMGJNh08AkryZ0yJksb0HsA==
=3oiX
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=floated
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwn@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwn@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmalnogmr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :from:date:message-id:subject:to:content-type
  :content-transfer-encoding;
b=A0RHBi0TnribKSSqQHJ3WYbkZ+b0cuPeuoKAyApWcc=;
  bg=gyTqkRhKHafFKIZCBWsrhnMNVDq1PWJhyC0EvxpSkaoHo3HAR96MWQNBePu40Ac
  Vn5qiLqTdom4e9z1UE6iMwZo9kqi/Qw0L/SLib0DfQeNqo/eHYqPmuVsWitaYwNAyMJ
  Y9++76rPGqzYdALSfsvmww7Q3/bEmjVTr0QE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:
  :content-type:content-transfer-encoding;
b=jze7KSMkUGiIVCXXKXaaxMxi5NAtGdMQOrVZZfRNyGSy68xOd2sxefyyig3EfT6Nv6
  Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NweEWJntG3xliRQu/mXPfp8AzP3CeFL
  1orML1eQZ2xyuZA73jem+SJtfdHUCSD1Uhgl=

MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That's great!

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>> Hi Paul,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>
> That's great!
>
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>> domain all your contributions to PyCrypto, with the following notice?
>>
>>======================================================================
>> The contents of this file are dedicated to the public domain. To the
>> extent that dedication to the public domain is not available, everyone
>> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>> to exercise all rights associated with the contents of this file for
>> any purpose whatsoever. No rights are reserved.
>>======================================================================
>
> Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

===================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.
I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
   Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 09:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=UTF-8; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJbnEjvBPtnXfVAQLZhjP/ccG+JdZwNvPJRfsa6rhY6+MHLDHl6agk
evkJnSJAeVHIzNgVVeR5IXgDUgMakZJu4SOV7MqkhsKA9llte7PaD9VSYGn3ra5
gElwIDQDoOy5GEvXaMm74gqrb1PCChbCRmpaYNo+DZohwHkeFBjtwDRA3wItOrH7
SK4w9VBjtfY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
> 
> ==============================================================
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> ==============================================================

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbD02kxgc5580MG geeX/MVn8aw+1BHg0YD85gsntIDzkQtb+BR/xAvJ5zKyA
J/Mn/I+16ekJQ3jhu8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+tILJtBcZ
wrPEa9Oui9s=
=zSY9
-----END PGP SIGNATURE-----
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer.
and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

```
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
```

Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>

---

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFakko52lACgkQHKG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZhkeyJaTbzEqImOEW8JGpf
=abEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

===================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar  8 17:28:16 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goeodel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goeodel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun,  8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmailmgr-postfix 5011 invoked by uid 1003);  8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goeodel.dlitz.net (Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun,  8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>;  8 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :date:message-id:subject:from:to:content-type;
  bh=YWy9U32WCUCsRsRqkHwaoOZyJQBUu4Yvt5ml20U6mIdg=;
  b=0Mlj221lxYjJKge2zNjW3rUtli9LqFXmey5Wp0pLtuNF+X3duyhqspTuBAKw7MwVY
  B5E6VQuGVEyZbBnsctyVgq6DhQtouCLZymSViobmuDmKns7DtU/k0xpDk0xCxQmHYaa
L9/A6D3/66kKrNBgX9mc0GPcZTv5FYkP0Q=
DomainKey-Signature: a=rsa-shal; c=nofws;
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> >
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> > > "distribute and use", but not "modify".)
> > >
> > >================================================================================
> > > Distribute and use freely; there are no restrictions on further

---

MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

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Open Source Used In Cat9K 17.7.1 1789
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> 
> ===================================================================
> 
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> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> 
> Regards,
> - Dwayne
> 
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> 
> --000e0cd209d0e5a3d40464a23054
> Content-Type: text/html; charset=ISO-8859-1
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==

Regards,

- Dwayne

--

Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0 =A0 =A0 Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A04A24 928C EC1= 3 39C2 5CF7

--000e0cd209d0e5a3d40464a23054--

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:
(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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

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--amk (www.amk.ca)

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

Open Source Used In Cat9K 17.7.1 1794
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May 5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
  for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)
  Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
  for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)
  Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600
  Delivered-To: m-dlitz-dlitz@dlitz.net
  Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
  Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
    by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
    for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30 -0600 (CST)
  Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
  Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
    id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
  Received: from firewall66.interaccess.nl
    (firewall66.interaccess.nl [193.173.35.66]) by www.webmail.vuurwerk.nl
    (Horde MIME library) with HTTP;
    Tue, 05 May 2009 09:08:25 +0200
  Message-ID: <20090505090825.gs@ps7hg@08wwwok@www.webmail.vuurwerk.nl>
  Date: Tue, 05 May 2009 09:08:25 +0200
  From: joris@bontje.nl
  To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
  Subject: Re: PyCrypto license clarification
  References: <20090505024914.GA9219@rivest.dlitz.net>
  In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
  MIME-Version: 1.0
  Content-Type: text/plain;
    charset=ISO-8859-1;
    format="flowed"
  Content-Disposition: inline

Open Source Used In Cat9K 17.7.1 1795
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required
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I was very excited to read that it is now one of the installed
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You have my full permission to dedicate all my contributions to
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> ==============================================================
>
> Regards,
>
> Dwayne
>
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Excellent! Thank you!

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--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:35 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bZfpQxyKFZ88benniyupGw4Zvlekb9B5k91qKU+51W/TksGBij5YZlhhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlxK0u2UD0yoYTINBCmsdMQRoj7ph9bmt+p/EjhRpe+Fv6aoLV0FONWiHGdghPT1dulWXfVtgB2aU=
DomainKey-Signature:a=rsa-sa1; q=dns; c=nofws;
s=s1024; d=yahoo.com;

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:35 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
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DomainKey-Signature:a=rsa-sa1; q=dns; c=nofws;
s=s1024; d=yahoo.com;
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify").
>
>
> ==============================================================
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.
>
> ==============================================================

> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).

> --amk

> (www.amk.ca)

> For the next PyCrypto release, I would like to take steps
> to move toward a
> clearer licensing regime. I am asking as many
> copyright holders as I can
> find if I can release PyCrypto under something clearer and
> more standard.
> Below, I have quoted a public domain dedication that was
> recommended in
> _Intellectual Property and Open Source: A Practical Guide
> to Protecting
> Code_, by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.

> I understand that you have made contributions to
> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
>
> The contents of this file are
> dedicated to the public domain. To the
> extent that dedication to the public
> domain is not available, everyone
> is granted a worldwide, perpetual,
> royalty-free, non-exclusive license
> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
> rights are reserved.
>
> Regards,
> - Dwayne

> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key  - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
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>
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==================================================================

Incorporating the code into commercial
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(though that would be nice).

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have already contacted A. M. Kuchling, and he has approved the
following dedication for his contributions.

May I, on your behalf, dedicate to the public domain all your
contributions to PyCrypto, with the following notice?

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> for
> any purpose whatsoever. No rights are reserved.
>
> =
> ==
> =
>=====================================================================
>
> In case I haven’t replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCIQmYYuVODvIllyLg0hgCl9LAbQ
SH8AoLJgaq1lHi7ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

00INDEX This file
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LICENSE.libtom LICENSE file from LibTomCrypt
stmts/ Statements by contributors
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Previously, the copyright and/or licensing status of the Python
Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The
original intention of Andrew M. Kuchling and other contributors has
been to dedicate PyCrypto to the public domain, but that intention was
not necessarily made clear in the original disclaimer (see
LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example,
the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
(An updated version on the author's website came with a license that
contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have
been taken:

1. Obtaining explicit permission from the original contributors to
dedicate their contributions to the public domain if they have not
already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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the version number 2.1.]

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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.

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

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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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be optional: if the application does not supply it, the square root function must still compute square roots.)

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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
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/*

#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;
    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
buff[i] = '\0';
}
buff[6] = '\0';
i = ((ptr[6] & 0x1E) >> 1);
if (i != 0)
sprintf(&buff[strlen(buff)], "-%d", i);
return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
char buf[64];
if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
unsigned char *ptr;
char *orig, c;
unsigned int i;

sap->sa_family = netrom_aftype.af;
ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

/* First, scan and convert the basic callsign. */
orig = bufp;
i = 0;
while ((*bufp != '\0') && (*bufp != '.') && (i < 6)) {
c = *bufp++;
if (islower(c))
   c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#define DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#undef DEBUG
errno = EINVAL;
return (-1);
}
*(ptr++) = (unsigned char) ((c << 1) & 0xFE);
i++;
}
/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}
/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
} else {
*ptr = (unsigned char) '\0';
}
/* All done. */
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): ", orig);
for (i = 0; i < sizeof(ax25_address); i++)
fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
fprintf(stderr, "\n");
#endif
return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
if (text == NULL)
fprintf(stderr, "%s\n", netrom_errmsg);
else
fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
if (NETROM_input(0, bufp, sap) < 0)
return (-1);

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sap->sa_family = ARPHRD_NETROM;
return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}
#endif

/* Start the KISS encapsulation on the file descriptor. */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
        return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};
#endif/* HAVE_AFNETROM */

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Version 3, 29 June 2007

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http://www.oberhumer.com/opensource/lzo/
*/

#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if !defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

/#define LZO_NEED_DICT_H 1
#include "config1c.h"

#if defined(COMPRESS_ID)
#define COMPRESS_ID     LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif

#include "lzo1b_c.ch"

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const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in,  lzo_uint  in_len,
    lzo_bytep out, lzo_uintp out_len,
    lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in, in_len, out, out_len, wrkmem, do_compress);
}

/* vim:set ts=4 sw=4 et: */

1.157 which 2.21 r3
1.157.1 Available under license :

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Version 3, 29 June 2007

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1.164 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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1.165 python3-atomicwrites 1.3.0 r0

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1.166 libgpg-error 1.31 1.el8

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1.167 systemd-shim 239-18.el8_1.4

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1.169 python3-click 7.1.1 r0
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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/_compat.py
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Metadata-Version: 1.2
Name: click
Version: 7.1.1
Summary: Composable command line interface toolkit
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

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

Click in three points:

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

Installing
----------

Install and update using `pip`_:

.. code-block:: text

   $ pip install -U click


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

.. code-block:: python

   import click

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

if __name__ == '__main__':
    hello()

.. code-block:: text

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

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------

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Links
-----

- Website: https://palletsprojects.com/p/click/
- Documentation: https://click.palletsprojects.com/
- Releases: https://pypi.org/project/click/
- Code: https://github.com/pallets/click
- Issue tracker: https://github.com/pallets/click/issues
- Test status: https://dev.azure.com/pallets/click/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*, !=3.5.*, !=3.6.*
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* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/PKG-INFO
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click.egg-info/PKG-INFO

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import io
import re
from setuptools import find_packages
from setuptools import setup

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

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

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={":""src""},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Intended Audience :: Developers",
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.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/docs/contrib.rst

1.170 dnf 4.4.2-2.el8
1.170.1 Available under license :

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

/*
*--------------------------------------------------------------------------
* erp_io.sm - Ethernet Ring Protection Controller state machine
* *
* June 2010, Viet Nguyen
* *
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
* All rights reserved.
*--------------------------------------------------------------------------
*/
XOS_SM_EVENTLIST_BEGIN
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END

/*
 * State machine states
 * - Init,
 * - A_Idle,
 * - B_Protection,
 * - C_ManualSwitch,
 * - D_ForcedSwitch,
 * - E_Pending
 */

XOS_SM_STATE_BEGIN(init)
  XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
  XOS_SM_TRANSITION(clear, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ms, erp_io_sm_action_aps_ms, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
  XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
XOS_SM_STATE_END
XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, D_ForcedSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */

XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait for ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io.sm
No license file was found, but licenses were detected in source scan.

/*
*--------------------------------------------------------------
* erp_io.c - ERP IO common code
* *
* July 2010, Viet Nguyen
* *
* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*--------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io.c
No license file was found, but licenses were detected in source scan.

/*
*--------------------------------------------------------------
* erp_ctrl_ha.c - ERP Controller HA common code
* *
* Sep 2010, Ramachandran Ramanujalu
* *
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*--------------------------------------------------------------
*/
Found in path(s):
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.

/*
*----------------------------------------------------------
* erp_common.c - ERP common code
* 
* July 2010, Viet Nguyen
* 
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*----------------------------------------------------------
*/

Found in path(s):
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_common.c
No license file was found, but licenses were detected in source scan.

#
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#

name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;

Found in path(s):
*/opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ring.zn
No license file was found, but licenses were detected in source scan.

/*
*----------------------------------------------------------
/  erp_ctrl_sm.c
/  G.8032 ERP Controller state machine
/
/  July 2010, Viet Nguyen
/
/  Copyright (c) 2010-2020 by Cisco Systems, Inc.
/  All rights reserved.
/**-----------------------------------------------
 */

Found in path(s):
/  /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl_sm.c
No license file was found, but licenses were detected in source scan.

/  *------------------------------------------------------------------
/  erp_debug.c - G.8032 Ethernet Ring Protection debug routines
/  *
/  * June 2010, Viet Nguyen
/  *
/  * Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
/  * All rights reserved.
/  *------------------------------------------------------------------
 */

Found in path(s):
/  /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_debug.c
No license file was found, but licenses were detected in source scan.

/  *------------------------------------------------------------------
/  erp_pdb.h
/  *
/  * G.8032 Profile Database
/  *
/  * July 2010, Mark Bilstad
/  *
/  * Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
/  * All rights reserved.
/  *------------------------------------------------------------------
 */

Found in path(s):
/  /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_pdb.c
No license file was found, but licenses were detected in source scan.

/  *------------------------------------------------------------------
/  erp_ctrl.sm - Ethernet Ring Protection Controller state machine
/**-----------------------------------------------
XOS_SM_EVENTLIST_BEGIN
XOS_SM_EVENT(init)
XOS_SM_EVENT(clear)
XOS_SM_EVENT(fs)
XOS_SM_EVENT(aps_fs)
XOS_SM_EVENT(local_sf)
XOS_SM_EVENT(local_clear_sf)
XOS_SM_EVENT(aps_sf)
XOS_SM_EVENT(aps_ms)
XOS_SM_EVENT(ms)
XOS_SM_EVENT(wtr_expires)
XOS_SM_EVENT(wtb_expires)
XOS_SM_EVENT(aps_nr_rb)
XOS_SM_EVENT(aps_nr)
XOS_SM_EVENT(ack)
XOS_SM_EVENTLIST_END

XOS_SM_STATE_BEGIN(init)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_SF, erp_ctrl_sm_action_local_SF, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_SF, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_SF, erp_ctrl_sm_action_aps_SF, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_MS, erp_ctrl_sm_action_aps_MS, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.sm
No license file was found, but licenses were detected in source scan.

/*
*...........................................................................................................
* erp_ctrl.c - ERP Controller common code
* *
* July 2010, Viet Nguyen
* */
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ctrl.c
No license file was found, but licenses were detected in source scan.

/*
* erp_io_ha.c - ERP IO HA common code
* 
* Sep 2010, Ramachandran Ramanujalu
* 
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_ha.c
No license file was found, but licenses were detected in source scan.

/*
* erp_ridb.c
* G.8032 Ring/Instance Database
* 
* July 2010, Mark Bilstad
* 
* Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_ridb.c
No license file was found, but licenses were detected in source scan.

/*
* erp_io_pak.c - ERP IO packet handling source file
* 
* August 2010, Ramachandran Ramanujalu
* 
* Copyright (c) 2010-2014 by cisco Systems, Inc.
* All rights reserved.
Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_io_pak.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* erp_pd_caps_stubs.c - ERP Controller stub file
* July 2010, Ramachandran Ramanujalu
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_pd_caps_stubs.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* erp_cfg_parser.c - ERP config parser code
* August 2011
* Copyright (c) 2011-2012, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450014_1615191955.57/0/dnf-tar/src/erp_cfg_parser.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* erp_io_sm.c
* G.8032 ERP IO state machine
* July 2010, Viet Nguyen
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*------------------------------------------------------------------
*/
1.171 popt 1.16-14.el8
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1.172 traceroute 2.1.0 6.el8
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1.180 yajl 2.1.0

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1.184 gnulib 2018-03-07.03 r0

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Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir=$'(abs_aux_dir)'
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that 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 \texttt{Lesser General Public License} because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \emph{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.

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

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

@item
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
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.
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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- 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.

- 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.

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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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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@item
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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@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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

Ty Coon, President of Vice
```

That's all there is to it!

Files:
- tests/test-canonicalize-lgpl.c
- tests/signature.h
- tests/null-ptr.h
- tests/macros.h

Depends-on:
- ignore-value
- same-inode
- symlink

configure.ac:

Makefile.am:
- TESTS += test-canonicalize-lgpl
- check_PROGRAMS += test-canonicalize-lgpl

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

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.

@example
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}
@end smallexample

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

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

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

@example
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

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

@example

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
The files in this directory describe the gnulib modules.
The following copyright notice applies to each of these description files.

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Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.
Please use your full legal name (in ASCII characters) as the subject line of the message.

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

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
Maintainer:
all
Description:
Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
  gl_RELOCATABLE_LIBRARY
  if test $RELOCATABLE = yes; then
    AC_LIBOBJ([relocatable])
  fi

Makefile.am:
  DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup          [test $REPLACE_GETCWD = 1]

configure.ac:
  gl_FUNC_GETCWD_LGPL
if test SREPLACE_GETCWD = 1; then
    AC_LIBOBJ([getcwd-lgpl])
fi

AC_LIBOBJ([getcwd])

Makefile.am:

Include:

<unistd.h>

License:

LGPLv2+

Maintainer:

Eric Blake

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program
remains recognizably distinct. ("Owner" is in quotes to show that we
don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution
terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program
right away. There are many things which we will need in order to have
a complete system but which aren't really useful until the rest of the
system is done. But signing the assignment does not stop you from
distributing the program yourself--as long as you do so under the GNU
terms. You don't have to wait for us to start distributing. You can
start distributing as soon as you attach our standard copyleft to the
files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you
to use your code in proprietary programs, on 30 days' notice. (The 30
days' notice is there because, through a legal technicality, it would
improve our position in a suit against a hoarder.) Although we
believe that proprietary software is wrong, we include this clause
because it would serve no purpose to ask you to promise not to do it.
You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as
free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms
such as the GNU GPL. (In order to accept the program as GNU software,
we would have to be happy with your choice of terms.) This does not
require a contract between you and the FSF, but we would appreciate
having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy
from us, and uses it as a basis for a proprietary product in violation
of the terms--we cannot sue him. You would have to sue, or he gets
away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed
piece of paper--a disclaimer of rights--from you confirming this. If the
program is not very important, we can do without one; the worst that could
happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public
domain work. (This doesn't restrict the original, which remains in the
public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the
Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don’t copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

License:
LGPLv2+

Maintainer:
all

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Version 2, June 1991

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

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

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it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

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

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2.1, February 1999

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[Please list the files involved, or give a brief description of the changes being disclaimed.]

Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd/lgpl/LDADD = $(LDADD) $LIBINTL

Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
ermo [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANonicalize_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:
gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
   AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gr_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gr_STDLIB_MODULE_INDICATOR([realpath])
Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all

Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

1.185 cyrus-sasl 2.1.27 5.el8
1.185.1 Available under license :

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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 * Tim Martin
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1.186 lvm2 2.03.02 r0

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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c
bindresvport.c
clint_generic.c
clint_perror.c
clint_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesizer.c
svc_auth_unix.c
types.hin
xdr_alloc.c
xdr_reference.c

possibly also the following :
include/gssrpc/auth.h
include/gssrc/auth_unix.h
include/gssrc/clnt.h
include/gssrc/netdb.h
include/gssrc/pmap_clnt.h
include/gssrc/pmap_prot.h
include/gssrc/pmap_rmt.h
include/gssrc/rpc.h
include/gssrc/rpc_msg.h
include/gssrc/svc_auth.h
include/gssrc/svc.h
include/gssrc/types.hin
include/gssrc/xdr.h
kadmin/server/ovsec_kadmd.c
lib/rpc/auth_none.c
lib/rpc/auth_unix.c
lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c
lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c
lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c
lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c
lib/rpc/getrpcent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c
lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c
lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c
lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc
auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsvprt.c
bootparam_prot.x
clnt_gen.c
clnt.h
clnt_perr.c
clnt_raw.c
clnt_simp.c
clnt_tcp.c
clnt_udp.c
clnt_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
gerpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
netdb.h
nfs_prot.x
nlm_prot.x
openchild.c
pmap_clnt.c
pmap_clnt.h
pmap_prot2.c
pmap_prot.c
pmap_prot.h
pmap_rmt.c
pmap_rmt.h
pm_getmaps.c
pm_getport.c
rex.x
rpc_clntout.c
rpc_cmsg.c
rpc_common.c
rpc_cout.c
rpc_des.h
rpc_dtable.c
rpc.h
rpc_hout.c
rpclntinfo.c
rpc_main.c
rpc_msg.h
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rpc_svcout.c
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Linux and Virtualization Engineering
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1.193 libsvol 0.7.6 r0

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1.194 python3-pynacl 1.4.0 r0

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1.195 policycoreutils 2.9-3.el8_1.1

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1.197 python3-cryptography 2.9 r0

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pycparser -- A C parser in Python

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open source used in cat9k 17.7.1

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Encoding: 169 169 102
GlifName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 508 541 494 c 1
526 452 l 1
499 452 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
530 674 618 630 673 576 c 0
729 522 776 436 776 333 c 0
776 231 730 146 674 92 c 0
618 38 532 -7 430 -7 c 0
327 -7 242 38 186 92 c 0
130 146 83 230 83 333 c 0
83 435 129 521 185 575 c 0
240 629 327 674 428 674 c 0

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1.210 python3-socketio 4.6.0 r0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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This option is useful when you wish to copy part of the code of
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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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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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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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distribute.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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

The ``Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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@enumerate a
  @item
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@endenumerate
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@end enumerate

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@end enumerate

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@item
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@item
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.

@item
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@end enumerate

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@end smallexample

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@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{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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@c man 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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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
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DRuntime: Runtime Library for the D Programming Language
========================================================================

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.217 lzw-compression 1.0
1.217.1 Available under license :

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

/* $Id: compress_lzw.c,v 3.3.62.2 1996/07/10 22:21:52 dstine Exp $
 * $Source: /release/112/cvs/Xsys/os/compress_lzw.c,v $
 *------------------------------------------------------------------
 * compress_lzw.c - generic compress/decompress routines
 * *
 * September 1993, Stig Thormodsrud
 * *
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 * *
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 *------------------------------------------------------------------
 * $Log: compress_lzw.c,v $
* Revision 3.3.62.2 1996/07/10 22:21:52 dstine
* Revision 3.3.62.1 1996/03/18 21:29:18 gstovall

Elvis has left the building. He headed out to California, and took the port ready changes with him.

* Revision 3.3.26.2 1996/03/07 10:18:00 mdb
* Revision 3.3.26.1 1996/02/20 16:38:04 dstine

Elvis has left the building. He headed out to California, and took the port ready changes with him.

* Revision 3.3 1995/11/17 18:46:04 hampton
* Revision 3.2 1995/11/17 00:17:23 gstovall

Ladies and gentlemen, I introduce to you, the port ready commit.

* Revision 2.1 1995/06/07 21:54:12 hampton

Bump version numbers from 1.x to 2.x.

*------------------------------------------------------------------
* $Endlog$
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033344783_1590682057.47/0/compress-lzw-l-zip/compress_lzw.c

1.218 libnss-mdns 0.10 r7
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jloup@gzip.org          madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if 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
Kienenberger, 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
Peslyak, 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
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages 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, Frédric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédric
Margeviitis, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.220 brotli 1.0.6-1.el8

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1.221 libtool 2.4.6 r0

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1.223 rapidjson 1.0.2 r0
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1.224 compiler 7.1.0 r0

1.224.1 Available under license:

; RUN: llc - %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right
; register classes.

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

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

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248

} }==============================================================================

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
    ; CHECK-LABEL: test_sitofp_fixed:
    ; First, extend each i32 to i64
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

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<thead>
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<th>Directory</th>
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<td>clang-tidy/cert</td>
</tr>
<tr>
<td>clang-tidy</td>
<td>clang-tidy/hicpp</td>
</tr>
</tbody>
</table>

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<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
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<tr>
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</tr>
<tr>
<td>md5 contributions</td>
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<td>add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN ObjectContainerBSDArchive.cpp)</td>
<td></td>
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; RUN: llc -march=hexagon < %s
; REQUIREES: asserts
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body
  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

  sw.bb3.i20: ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

  exit.2: ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s 
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res

; CHECK-LABEL: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
; CHECK-NEXT   callq __subtf3
; CHECK-NEXT   testl %ebx, %ebx
define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
} define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
} define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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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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---
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
---

import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
    }

    setup(**arguments)
'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.*, !=3.4.*, !=3.5.*, !=3.6.*, !=3.7.*, !=3.8.*',
'test_suite': 'tests',
]

setup(**arguments)

if __name__ == '__main__':
    main()

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Metadata-Version: 1.2
Name: idna
Version: 2.9
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 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.

```python
# Python 3
>>> import idna
>>> idna.encode('.
\n>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

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

```python
# Python 2
>>> import idna.codec
>>> print u'\n\n>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'')

'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++++

As described in `RFC 5895 <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. 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/>`_.

Open Source Used In Cat9K 17.7.1 2730
The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Classifier: Topic :: Internet :: Name Service (DNS)
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Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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1.236 stunsERVER 1.2.15 r0

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_mkquery.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_comp.c
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 * 
 * $Id: lwres_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
 * 
 * Found in path(s):
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"
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"

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_packet.3
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  <trevored>
    <date>2004/11/03</date> 01:39:06
  </trevored>

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<!-- $Id: lwres_context.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;</funcsynopsis>
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<funcdef>
lwres_result_t
<function>lwres_context_create</function>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
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lwres_result_t
<function>lwres_context_destroy</function>
<paramdef>lwres_context_t **contextp</paramdef>
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<funcdef>
</funcprototype>
</funcdef>
</refsynopsisdiv>
void
<function lwres_context_initserial</function><funcdef>
<paramdef lwres_context_t *ctx</paramdef>
<paramdef lwres_uint32_t serial</paramdef>
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<funcprototype>
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lwres_uint32_t
<function lwres_context_nextserial</function><funcdef>
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<funcdef>
void
<function lwres_context_free</function><funcdef>
<paramdef lwres_context_t *ctx</paramdef>
<paramdef void *mem</paramdef>
<paramdef size_t len</paramdef>
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<funcdef>
void *
<function lwres_context_sendrecv</function><funcdef>
<paramdef lwres_context_t *ctx</paramdef>
<paramdef void *sendbase</paramdef>
<paramdef int sendlen</paramdef>
<paramdef void *recvbase</paramdef>
<paramdef int recvlen</paramdef>
<paramdef int *recv_len</paramdef>
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<title DESCRIPTION</title>
<para>
<function lwres_context_create</function>
creates a
</para>
<type lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>, a pointer to a
<type>lwres_context_t</type> pointer. This
<type>lwres_context_t</type> pointer must initially be NULL, and is modified
to point to the newly created
<type>lwres_context_t</type>.

When the lightweight resolver needs to perform dynamic memory allocation, it will call
<parameter>malloc_function</parameter> to allocate memory and
<parameter>free_function</parameter> to free it. If
<parameter>malloc_function</parameter> and
<parameter>free_function</parameter> are NULL, memory is allocated using
.Xr malloc 3
and
<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum></citerefentry>.

It is not permitted to have a NULL
<parameter>malloc_function</parameter> and a non-NULL
<parameter>free_function</parameter> or vice versa.
<parameter>arg</parameter> is passed as the first parameter to the memory allocation functions.
If
<parameter>malloc_function</parameter> and
<parameter>free_function</parameter> are NULL,
<parameter>arg</parameter>
is unused and should be passed as NULL.

Once memory for the structure has been allocated, it is initialized using

\[\text{lwres_conf_init}\]

and returned via

\[\text{lwres_context_destroy()}\]

destroying a

\[\text{lwres_context_t}\]

closing its socket.

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests. This serial number is controlled using

\[\text{lwres_context_initserial()}\]

and

\[\text{lwres_context_nextserial()}\].

\[\text{lwres_context_initserial()}\]

does the serial number for context

\[\text{ctx}\]

to

\[\text{serial}\]

increments the serial number and returns the previous value.

Memory for a lightweight resolver context is allocated and freed using

\[\text{lwres_context_allocmem()}\]

and

\[\text{lwres_context_freemem()}\].

These use whatever allocations were defined when the context was created with

\[\text{lwres_context_create()}\]

\[\text{lwres_context_allocmem()}\]
allocates <parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres_context_freemem()</function> frees <parameter>len</parameter> bytes of space starting at location <parameter>mem</parameter>.

<para>
<para>
<function>lwres_context_sendrecv()</function> performs I/O for the context <parameter>ctx</parameter>.

Data are read and written from the context's socket. It writes data from <parameter>sendbase</parameter> — typically a lightweight resolver query packet — and waits for a reply which is copied to the receive buffer at <parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in <parameter>*recvd_len</parameter>.

<para>
<para>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns <errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the <type>struct lwres_context</type> could not be allocated, <errorcode>LWRES_R_SUCCESS</errorcode> otherwise.

Successful calls to the memory allocator <function>lwres_context_allocmem()</function> return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.

<para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned when
<function>lwres_context_sendrecv()</function> completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode> is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode> is returned if
<function>lwres_context_sendrecv()</function> times out waiting for a response.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
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<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>
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<citerefentry>
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_context.docbook
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/region.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/socket.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/soa_6.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/metaddr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/txt_16.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/event.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/hinfo_13.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/proforma.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/buffer.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/opcache.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/opcache.h

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/net32/win32os.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/opcode.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/opcode.h
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"
"Os OPERATING_SYSTEM [version/release]
" The following requests should be uncommented and
" used where appropriate. This next request is
" for sections 2 and 3 function return values only.
" This next request is for sections 1, 6, 7 & 8 only
" .Sh ENVIRONMENT
" .Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" (command return values (to shell) and
" fprintf/stderr type diagnostics)
" The next request is for sections 2 and 3 error
" and signal handling only.
" .Sh STANDARDS
" .Sh HISTORY
" .Sh BUGS

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
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<td>/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c</td>
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<td>/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tsig.c</td>
<td></td>
</tr>
<tr>
<td>/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nxt_30.h</td>
<td></td>
</tr>
</tbody>
</table>

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* /opt/cola/permits/1130449963_1615189022.84/lib-tar/bind/inet/inet_network.c
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/bind/inet/inet_makeaddr.c
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/bind/inet/inet_lnaof.c
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* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_getnameinfo.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_hstrerror.html
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* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_gai_strerror.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_gnba.docbook
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_getaddrinfo.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_gethostent.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_context.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_gnba.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_noop.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_getnameinfo.docbook
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_resutil.html
* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres.docbook
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* /opt/cola/permits/1130449963_1615189022.84/lib-tar/lwres/man/lwres_gnba.html
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This is the header file for the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

Changed so as no longer to depend on Colin Plumb's `usual.h' header definitions; now uses stuff from dpkg's config.h.

- Ian Jackson <ijackson@nyx.cs.du.edu>.

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_gr.c
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Oct 18, 2000

lwres_getrsetbyname

lwres_freerrset

retrieve DNS records

#include &lt;lwres/netdb.h&gt;

int

const char *hostname

unsigned int rdclass

unsigned int rdtype

unsigned int flags

struct rsetinfo **res

void

lwres_getrsetbyname

lwres_freerrset
The following structures are used:

```c
struct rdatainfo {
    unsigned int rdi_length; /* length of data */
    unsigned char *rdi_data;  /* record data */
};

struct rrsetinfo {
    unsigned int rri_flags;    /* RRSET_VALIDATED... */
    unsigned int rri_rdclass;  /* class number */
    unsigned int rri_rdtype;   /* RR type number */
    unsigned int rri_ttl;      /* time to live */
    unsigned int rri_nrdatas;  /* size of rdatas array */
    unsigned int rri_nsigs;    /* size of sigs array */
    char *rri_name;            /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs;  /* individual signatures */
};
```

After a successful call to `lwres_getrrsetbyname()`,

and

```c
lwres_getrrsetbyname()
```

gets a set of resource records associated with a

```c
<parameter>hostname</parameter>,

<parameter>class</parameter>,
```

and

```c
<parameter>type</parameter>.
```

```c
<parameter>hostname</parameter>
```

is

```c
<parameter>flags</parameter>
```

field is currently unused and must be zero.

After a successful call to

```c
lwres_getrrsetbyname()
```
<parameter>*res</parameter> is a pointer to an <type>rrsetinfo</type> structure, containing a list of one or more <type>rdatainfo</type> structures containing resource records and potentially another list of <type>rdatainfo</type> structures containing SIG resource records associated with those records. The members <constant>rri_rdclass</constant> and <constant>rri_rdtype</constant> are copied from the parameters. <constant>rri_ttl</constant> and <constant>rri_name</constant> are properties of the obtained rsset. The resource records contained in <constant>rri_rdatas</constant> and <constant>rri_sigs</constant> are in uncompressed DNS wire format. Properties of the rdataset are represented in the <constant>rri_flags</constant> bitfield. If the RRSET_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

All of the information returned by <function>lwres_getrrsetbyname()</function> is dynamically allocated: the <constant>rrsetinfo</constant> and <constant>rdatainfo</constant> structures, and the canonical host name strings pointed to by the <constant>rrsetinfo</constant> structure.

Memory allocated for the dynamically allocated structures created by a successful call to <function>lwres_getrrsetbyname()</function> is released by <function>lwres_freerrset()</function>.

<parameter>rsset</parameter> is a pointer to a
struct rrset
created by a call to
lwres_getrrsetbyname().

</para>
<para>
<para>
</para>
</refsect1>
</refsect1>
<title>RETURN VALUES</title>
<para>
lwres_getrrsetbyname()
returns zero on success, and one of the following error
codes if an error occurred:
<variablelist>

<varlistentry><term><constant>ERRSET_NONAME</constant></term>
<listitem><para>
the name does not exist
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NODATA</constant></term>
<listitem><para>
the name exists, but does not have data of the desired type
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term>
<listitem><para>
memory could not be allocated
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_INVAL</constant></term>
<listitem><para>
a parameter is invalid
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET_FAIL</constant></term>
<listitem><para>
other failure
</para></listitem></varlistentry>

</variablelist>

</para>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>
</refsect1>
</refentry>

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/gen-win32.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwres_getaddrinfo.c

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"
" $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"

Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.3

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Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/eventlib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/eventlib_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_connects.c

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Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccfg/namedconf.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccfg/include/isccfg/grammar.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ds.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/win32/strerror.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/parseint.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/win32/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind9/getaddresses.c
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<!-- $Id: lwres_gethostent.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_gethostent</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_gethostbyname</refname>
<refname>lwres_gethostbyname2</refname>
<refname>lwres_gethostbyaddr</refname>
<refname>lwres_gethostent</refname>
<refname>lwres_sethostent</refname>
<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
@paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>

Open Source Used In Cat9K 17.7.1 2784
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard \citerefentry\refentrytitle{gethostent}\manvolnum{3} functions provided by most operating systems. They use a \citerefentry\refentrytitle{struct hostent} which is usually defined in \filename{&lt;namedb.h&gt;}.
int h_length; /* length of address */
char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>
The members of this structure are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
<listitem>
<para>The official (canonical) name of the host.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_aliases</constant></term>
<listitem>
<para>A NULL-terminated array of alternate names (nicknames) for the host.
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addrtype</constant></term>
<listitem>
<para>The type of address being returned —
<type>PF_INET</type> or
<type>PF_INET6</type>. 
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_length</constant></term>
<listitem>
<para>The length of the address in bytes. 
</para>
</listitem></varlistentry>
<varlistentry><term><constant>h_addr_list</constant></term>
<listitem>
<para>A <type>NULL</type>-terminated array of network addresses for the host. 
Host addresses are returned in network byte order. 
</para>
</listitem></varlistentry>
</variablelist>
For backward compatibility with very old software,
<constant>h_addr</constant> is the first address in <constant>h_addr_list</constant>.<para>

<function>lwres_gethostent()</function>, <function>lwres_sethostent()</function>, <function>lwres_endhostent()</function>, <function>lwres_gethostent_r()</function>, <function>lwres_sethostent_r()</function> and <function>lwres_endhostent_r()</function> provide iteration over the known host entries on systems that provide such functionality through facilities like <filename>/etc/hosts</filename> or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.<para>

<function>lwres_gethostbyname()</function> and <function>lwres_gethostbyname2()</function> look up the hostname <parameter>name</parameter>. <function>lwres_gethostbyname()</function> always looks for an IPv4 address while <function>lwres_gethostbyname2()</function> looks for an address of protocol family <parameter>af</parameter>: either <type>PF_INET</type> or <type>PF_INET6</type> &mdash; IPv4 or IPv6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.<para>

Reverse lookups of addresses are performed by <function>lwres_gethostbyaddr()</function>. <parameter>addr</parameter> is an address of length <parameter>len</parameter> bytes and protocol family <parameter>type</parameter> &mdash; either <type>PF_INET</type> or <type>PF_INET6</type>. <function>lwres_gethostbyname_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>*error</parameter>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyname_r()</function>. 
<parameter>buf</parameter> is a buffer of length
<parameter>len</parameter> bytes which is used to store the
<constant>h_name</constant>, <constant>h_aliases</constant>, and
<constant>h_addr_list</constant> elements of the <type>struct
hostent</type> returned in <parameter>resbuf</parameter>.
Successful calls to <function>lwres_gethostbyname_r()</function>
return <parameter>resbuf</parameter>,
which is a pointer to the <type>struct hostent</type> it created.
</para>

<para>
<function>lwres_gethostbyaddr_r()</function> is a thread-safe function
that performs a reverse lookup of address <parameter>addr</parameter>
which is <parameter>len</parameter> bytes long and is of protocol
family <parameter>type</parameter> &mdash; <type>PF_INET</type> or
<type>PF_INET6</type>.  If an error occurs, the error code is returned
in <parameter>*error</parameter>.  The other function parameters are
identical to those in <function>lwres_gethostbyname_r()</function>.
<parameter>resbuf</parameter> is a pointer to a <type>struct
hostent</type> which is initialised by a successful call to
<function>lwres_gethostbyaddr_r()</function>.
<parameter>buf</parameter> is a buffer of length
<parameter>len</parameter> bytes which is used to store the
<constant>h_name</constant>, <constant>h_aliases</constant>, and
<constant>h_addr_list</constant> elements of the <type>struct
hostent</type> returned in <parameter>resbuf</parameter>.  Successful
calls to <function>lwres_gethostbyaddr_r()</function> return
<parameter>resbuf</parameter>, which is a pointer to the
<function>struct hostent()</function> it created.
</para>

<refsect1>
<title>RETURN VALUES</title>
<para>
The functions
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>, and
<function>lwres_gethostent()</function>
return NULL to indicate an error.  In this case the global variable
<type>lwres_h_errno</type>
will contain one of the following error codes defined in
<filename>&lt;lwres/netdb.h&gt;</filename>:
</para>

<variablelist>
<varlistentry><term><constant>HOST_NOT_FOUND</constant></term></varlistentry>

The host or address was not found.

<varlistentry><term><constant>TRY_AGAIN</constant></term></varlistentry>

A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.

<varlistentry><term><constant>NO_RECOVERY</constant></term></varlistentry>

A non-recoverable error occurred.

<varlistentry><term><constant>NO_DATA</constant></term></varlistentry>

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

<function>lwres_gethostent()</function> and <function>lwres_gethostent_r()</function> always return <type>NULL</type>.

<para>
<varlistentry>
<term><constant>HOST_NOT_FOUND</constant></term>
</varlistentry>

<para>
The host or address was not found.

<varlistentry>
<term><constant>TRY_AGAIN</constant></term>
</varlistentry>

A recoverable error occurred, e.g., a timeout. Retrying the lookup may succeed.

<varlistentry>
<term><constant>NO_RECOVERY</constant></term>
</varlistentry>

A non-recoverable error occurred.

<varlistentry>
<term><constant>NO_DATA</constant></term>
</varlistentry>

The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO_ADDRESS is accepted as a synonym for NO_DATA for backwards compatibility.

<function>lwres_gethostent()</function> and <function>lwres_gethostent_r()</function> always return <type>NULL</type>.

<para>
<refentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</refentry>

translates these error codes to suitable error messages.

<para>
<function>lwres_gethostent()</function>

and

<function>lwres_gethostent_r()</function>

always return <type>NULL</type>.

<para>
Successful calls to \texttt{lwres\_gethostbyname\_r()} and \texttt{lwres\_gethostbyaddr\_r()} return \texttt{resbuf}, a pointer to the \texttt{struct hostent} that was initialised by these functions. They return \texttt{NULL} if the lookups fail or if \texttt{buf} was too small to hold the list of addresses and names referenced by the \texttt{h\_name}, \texttt{h\_aliases}, and \texttt{h\_addr\_list} elements of the \texttt{struct hostent}. If \texttt{buf} was too small, both \texttt{lwres\_gethostbyname\_r()} and \texttt{lwres\_gethostbyaddr\_r()} set the global variable \texttt{errno} to \texttt{ERANGE}.

\begin{verbatim}
</para>
<refsect1>
<title>SEE ALSO</title>
<para>
<refentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres\_getipnode</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres\_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres\_getnode</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres\_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
<refentry>
<refentrytitle>lwres\_endhostent</refentrytitle><manvolnum>3</manvolnum>
</refentry>,
</para>

</refsect1>
<title>BUGS</title>
<para>
\texttt{lwres\_gethostbyname()}, \texttt{lwres\_gethostbyname2()}, \texttt{lwres\_gethostbyaddr()} and \texttt{lwres\_endhostent()} are not thread safe; they return pointers to static data and provide error codes through a global variable. Thread-safe versions for name and address lookup are provided by \texttt{lwres\_gethostbyname\_r()} and \texttt{lwres\_gethostbyaddr\_r()}.\end{verbatim}
The resolver daemon does not currently support any non-DNS name services such as
<filename>/etc/hosts</filename>
or
<type>NIS</type>, consequently the above functions don't, either.
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- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_update.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_nw.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_ng.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/logging_p.h
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/nsap_addr.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/include/isc/logging.h
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getgrent.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_p.h
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_gr.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_gr.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/resolv/res_mkupdate.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_ntop.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/nameser/ns_print.c
- /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gethostent.c

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Found in path(s):
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/make/mkdep.in
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AC_REVISION($Revision: 1.1 $)

AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG AR, ar
ARFLAGS="cruv"
AC_SUBST AR
AC_SUBST ARFLAGS

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
"")
AC_MSG_ERROR([ ar program not found. Please fix your PATH to include the directory in which ar resides, or set AR in the environment with the full path to ar. ])

;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etrags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
AC_MSG_CHECKING(for Exuberant Ctags etags)
if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
else
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
'${prefix}/include')
includedir='${prefix}/bind/include'
;;
esac
case "$libdir" in

`{prefix}/lib`) libdir=`{prefix}/bind/lib`
``
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
# case "INSTALL" in
#/*)
  ``;
  `)
  #
  # Not all systems have dirname.
  #
  changequote({}, )
  ac_dir=``echo INSTALL | sed 's%/[^/]*$%%"'
  changequote([, ])

  ac_prog=``echo INSTALL | sed 's%.*/%%"'
  test "ac_dir" = "ac_prog" && ac_dir=.
  test -d "ac_dir" && ac_dir="`(cd "$ac_dir" && pwd)""
  INSTALL="ac_dir/$ac_prog"
  ``;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets SCC to be something, let that override
# our change.
#
# if test "XSCC" = "X" ; then
# case "$host" in
#  */-dec-osf(*)
#    CC="cc"
#  ;;
#  */-solaris*)
#    # Use Sun's cc if it is available, but watch
#    # out for /usr/ucb/cc; it will never be the right
#    # compiler to use.
# If setting CC here fails, the AC_PROG_CC done
# below might still find gcc.
IFS="${IFS=}"; ac_save_ifs="IFS"; IFS="":"for ac_dir in $PATH; do
test -z "$ac_dir" && ac_dir=.
case "$ac_dir" in
  /usr/ucb)
# exclude
  ;;
  *)
  if test -f "$ac_dir/cc"; then
    CC="$ac_dir/cc"
    break
  fi
  ;;
esac
done
IFS="ac_save_ifs"
::
*.-hp-hpux*)
CC="cc"
::
mips-sgi-irix*)
CC="cc"
::
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
  yes)
  AC_MSG_CHECKING(if unistd.h defines fd_set)
AC_TRY_COMPILE([
#include <unistd.h>
,[fd_set read_set; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
  yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
  ;;
  no)
AC_MSG_ERROR([need either working unistd.h or sys/select.h])
  ;;
esac
]
);;
no)
AC_MSG_ERROR([need either unistd.h or sys/select.h])
  ;;
esac
  ;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
  # Find the machine's endian flavor.
  #
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-grBuild ...],
 want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
  yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
      WANT_IRS_GR_OBJC="$(WANT_IRS_GR_OBJC)"
  ;;
 *) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJC="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJC)

AC_ARG_WITH(irs-pw,[ --with-irs-pwBuild ...],
 want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
  yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
      WANT_IRS_PW_OBJS="${WANT_IRS_PW_OBJS}";;
  *) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,
    [ --with-irs-nis		Build ....],
    want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
  yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="${WANT_IRS_NIS_OBJS}";
  *)
    WANT_IRS_NIS_OBJS="";;
esac
case "$want_irs_nis" in
  yes)
    WANT_IRS_NISGR_OBJS="${WANT_IRS_NISGR_OBJS}";;
  *)
    WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
  yes)
    WANT_IRS_NISPW_OBJS="${WANT_IRS_NISPW_OBJS}";;
  *)
    WANT_IRS_NISPW_OBJS="";;
esac

AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
  #ifdef HAVE_DB_H
  int have_db_h = 1;
  #else
  int have_db_h = 0;
  #endif
  main() { return(!have_db_h); }
],
  WANT_IRS DBPW_OBJS="${WANT_IRS_DBPW_OBJS}" ,
  WANT_IRS_DBPW_OBJS=""
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
   [ --with-randomdev=PATH Specify path for random device],
   use_randomdev="$withval", use_randomdev="unspec")

  case "$use_randomdev" in
  unspec)
  case "$host" in
  *
  *
  esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
   AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$devrandom"),)
  yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
  esac
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
  esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
   [ --disable-threads	disable multithreading],
   case "$enable_threads" in
   yes")
AC_DEFINE_UNQUOTED(PATH.getRandomDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
  esac

#
if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case "$host" in
  *-netbsd*)
  # NetBSD has multiple pthreads implementations. The
  # recommended one to use is "unproven-pthreads". The
  # older "mit-pthreads" may also work on some NetBSD
  # versions. The PTL2 thread library does not
  # currently work with bind9, but can be chosen with
  # the --with-ptl2 option for those who wish to
  # experiment with it.
  CC="gcc"
  AC_MSG_CHECKING(which NetBSD thread library to use)
  AC_ARG_WITH(ptl2,
    [ --with-ptl2	 on NetBSD, use the ptl2 thread library (experimental)],
    use_ptl2="$withval", use_ptl2="no")

  : ${LOCALBASE:=/usr/pkg}

  if test "X$use_ptl2" = "Xyes"
  then
    AC_MSG_RESULT(PTL2)
    AC_MSG_WARN([linking with PTL2 is highly experimental and not expected to work])
    CC=ptlgcc
  else
    if test ! -d $LOCALBASE/pthreads
    then
      AC_MSG_RESULT(none)
      use_threads=false
    fi
  fi

if $use_threads
then

then
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
 pkg="$LOCALBASE/pthreads"
 lib1="-L$pkg/lib -Wl,-R$pkg/lib"
 lib2="-lpthread -lm -lgcc -lpthread"
 LIBS="$lib1 $lib2 $LIBS"
 CPPFLAGS="$CPPFLAGS -I$pkg/include"
 STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
 fi
 fi
 ;;
 *)
 AC_CHECK_LIB(pthread, pthread_create,,
 AC_CHECK_LIB(pthread, __pthread_create,,
 AC_CHECK_LIB(pthread, __pthread_create_system,,
 AC_CHECK_LIB(c_r, pthread_create,,
 AC_CHECK_LIB(c, pthread_create,
 use_threads=false))))
 ;;
 esac
 fi

if $use_threads
 then
 #
 # We'd like to use sigwait() too
 #
 AC_CHECK_LIB(c, sigwait,
 AC_DEFINE(HAVE_SIGWAIT),
 AC_CHECK_LIB(pthread, sigwait,
 AC_DEFINE(HAVE_SIGWAIT),
 AC_CHECK_LIB(pthread, _Psigwait,
 AC_DEFINE(HAVE_SIGWAIT),))
 )

AC_CHECK_FUNC(pthread_attr_getstacksize,
 AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

 #
 # Additional OS-specific issues related to pthreads and sigwait.
 #
 case "$host" in
 #
 # One more place to look for sigwait.
 #
 *-freebsd*)
 AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
 ;;
BSDI 3.0 through 4.0.1 needs pthread_init() to be called before certain pthreads calls. This is deprecated in BSD/OS 4.1.

*-bsd3.*|*-bsd4.0*)
AC_DEFINE(NEED_PTHREAD_INIT)
;;
#

LinuxThreads requires some changes to the way we deal with signals.

*-linux*)
AC_DEFINE(HAVE_LINUXTHREADS)
;;
#

Ensure the right sigwait() semantics on Solaris and make sure we call pthread_setconcurrency.

*-solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
   AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(POSIX_GETPWUID_R)
AC_DEFINE(POSIX_GETPWNAM_R)
AC_DEFINE(POSIX_GETGRGID_R)
AC_DEFINE(POSIX_GETGRNAM_R)
;;
*hpx11*)
AC_DEFINE(_PTHREADS_DRAFT4)
;;
#
UnixWare does things its own way.

*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

Look for sysconf to allow detection of the number of processors.

AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "$GCC" = "Yyes"; then
case "$host" in
  *-freebsd*)
    CC="$SCC -pthread"
  esac
CCOPT="$CCOPT -pthread"
STD_CDEFFINES="$STD_CDEFFINES -D_THREAD_SAFE"

;;
* -openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"

;;
* -solaris*)
LIBS="$LIBS -lthread"

;;
* -ibm-aix*)
STD_CDEFFINES="$STD_CDEFFINES -D_THREAD_SAFE"

;;
esac
else

case $host in
* -dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"

;;
* -solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"

;;
* -ibm-aix*)
STD_CDEFFINES="$STD_CDEFFINES -D_THREAD_SAFE"

;;
* -UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"

;;
esac
fi

ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="$\{WANT_IRS_THREADSGR_OBJS\}"
WANT_IRS_THREADSPW_OBJS="$\{WANT_IRS_THREADSPW_OBJS\}"
WANT_IRS_THREADS_OBJS="$\{WANT_IRS_THREADS_OBJS\}"

thread_dir=pthreads
else

ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""

thread_dir=nothreads
fi
AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
    [USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
    [USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
    [DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
    ,
    [DAEMON_OBJS="${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
    [STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
    ,
    [STRSEP_OBJS="${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror,
    [NEED_STRERROR="#undef NEED_STRERROR"],
    [NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
    AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
  case $host in
    *-dec-osf*)
      CC="$CC -std"
      CCOP="$CCOPT -std"
      MKDEPCC="$CC" ;
  esac
  *-hp-hpux*)
      CC="$CC -Ae -z"
      STD_CWARNINGS="+w1"
      CCOP="$CCOPT -Ae -z"
  esac
  esac
  case ""$CC +W 123 2>&1"" in
    *Unknown?option*)
      STD_CWARNINGS="+w1"
      ;;
    *)
      # Turn off the pointlessly noisy warnings.
      STD_CWARNINGS="+w1 +W 474,530"
      ;;
  esac
  CCOPT="$CCOPT -Ae -z"
  LIBS="-Wl,+vnocompatwarnings $LIBS"
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """BEGIN { colon=0; rec="";} { for (i = 0 ; i < NF; i++) { if (colon && a[$i]) continue; if ($i == \") continue; if (!colon) { rec = rec $i continue; } if ($i == ":") { rec = rec ";" colon = 1 continue; } if (length(rec $i) > 76) { print rec " "; rec = "\" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1; } } } END { print rec }"" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
  ;;
  *-sgi-irix*)
  else
AC_MSG_RESULT(no)
fi

# The version of the C compiler that constantly warns about
  # 'const' as well as alignment issues is unfortunately not
  # able to be discerned via the version of the operating
  # system, nor does cc have a version flag.
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC -w"
;;
esac
fi
#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love ’em.
#
# AC_CHECK_LIB(xnet, socket, ,
#   AC_CHECK_LIB(socket, socket)
#   AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
# case "$host" in
mips-sgi-irix*)
  ;;
*)
AC_CHECK_LIB(d4r, gethostname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
  ;;
esac

# # Purify support
#
# AC_MSG_CHECKING(whether to use purify)
# AC_ARG_WITH(purify,
[  --with-purify[=PATH]	use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
  no)
    ;;
  yes)
    AC_PATH_PROG(purify_path, purify, purify)
    ;;
*)
    purify_path="$use_purify"
    ;;
esac

case "$use_purify" in
  no)
    AC_MSG_RESULT(no)
    PURIFY=""
    ;;
*)
  if test -f $purify_path || test $purify_path = purify; then
    AC_MSG_RESULT($purify_path)
    PURIFYFLAGS="" echo $PURIFYOPTIONS"
    PURIFY="$purify_path $PURIFYFLAGS"
  else
    AC_MSG_ERROR([purify_path not found.
Please choose the proper path with the following command:

    configure --with-purify=PATH
  ])
fi
AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
    [ --with-libtool=use GNU libtool (following indented options supported)],
    use_libtool="$withval", use_libtool="no")

case $use_libtool in
  yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s:\.o:\.lo:'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ;;
  *)
    O=o
    A=a
    LIBTOOL=
    AC_SUBST(LIBTOOL)
    LIBTOOL_MKDEP_SED=
    LIBTOOL_MODE_COMPILE=
    LIBTOOL_MODE_INSTALL=
    LIBTOOL_MODE_LINK=
    ;;
    esac

#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
# IPv6
#
AC_ARG_ENABLE(ipv6,  
[  --enable-ipv6	use IPv6 [default=autodetect]])

  case "$enable_ipv6" in
    yes|''|autodetect)
      AC_DEFINE(WANT_IPV6)
      ;;
    no)
      ;;
    esac

  # We do the IPv6 compilation checking after libtool so that we can put
  # the right suffix on the files.
  #
  AC_MSG_CHECKING(for IPv6 structures)
  AC_TRY_COMPILE([  
    #include <sys/types.h>
    #include <sys/socket.h>
    #include <netinet/in.h>,
    [struct sockaddr_in6 sin6; return (0);],
    [AC_MSG_RESULT(yes)
      found_ipv6=yes],
    [AC_MSG_RESULT(no)
      found_ipv6=no])

  # See whether IPv6 support is provided via a Kame add-on.
  # This is done before other IPv6 linking tests to LIBS is properly set.
  #
  AC_MSG_CHECKING(for Kame IPv6 support)
  AC_ARG_WITH(kame,  
[  --with-kame[=PATH]use Kame IPv6 [default path /usr/local/v6]],
  use_kame="$withval", use_kame="no")

  case "$use_kame" in
    no)
      ;;
    yes)
      kame_path=/usr/local/v6
kame_path="$use_kame"

```bash

# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
#
# This is similar to the netinet6/in6.h issue.
```

Please choose the proper path with the following command:

```bash

   configure --with-kame=PATH

```
case "$host" in
  *-UnixWare*)
    ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <inet/in6.h>"
  ;;
  *)
    ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
    isc_netinetin6_hack=""
  ;;
esac

# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
  yes)
  HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"
  AC_MSG_CHECKING(for in6_addr)
  AC_TRY_COMPILE([
    #include <sys/types.h>
    #include <sys/socket.h>
    #include <netinet/in.h>
    $isc_netinetin6_hack
    $isc_netinet6in6_hack
  ],
  [struct in6_addr in6; return (0);],
  [AC_MSG_RESULT(yes)
    HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
    isc_in_addr6_hack=""],
  [AC_MSG_RESULT(no)
    HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
    isc_in_addr6_hack="#define in6_addr in_addr6"])

  AC_MSG_CHECKING(for in6addr_any)
  AC_TRY_LINK([
    #include <sys/types.h>
    #include <sys/socket.h>
    #include <netinet/in.h>
    $isc_netinetin6_hack
    $isc_netinet6in6_hack
    $isc_in_addr6_hack
  ],
  [struct in6_addr in6; in6 = in6addr_any; return (0);],
  [AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"]

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"]
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"]
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"]
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"]

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
},
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"]
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"]
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE.SOCKADDR_STORAGE="#undef HAVE.SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE.SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([#
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
[inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC Extra_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([#
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>

[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"]

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.so"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"]
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK[
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>,
[struct in_addr in; inet_pton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"]

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.so"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"]
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

# # Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
  *-dec-osf*)
  # Turn on 4.4BSD style sa_len support.
  AC_DEFINE(_SOCKADDR_LEN)
  ;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE[
#include <sys/types.h>
#include <sys/socket.h>,
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"]
AC_SUBST(HAVE_SA_LEN)
# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsd*[2345]*)have_minimum_ifreq=yes;;
  *-darwin*)have_minimum_ifreq=yes;;
  *-freebsd*)have_minimum_ifreq=yes;;
  *-lynxos*)have_minimum_ifreq=yes;;
  *-netbsd*)have_minimum_ifreq=yes;;
  *-next*)have_minimum_ifreq=yes;;
  *-openbsd*)have_minimum_ifreq=yes;;
  *-rhapsody*)have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
  yes)
    HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
    HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac

AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"

case "$host" in
  *aix3.2*)PORT_DIR="port/aix32";;
  *aix4*)PORT_DIR="port/aix4";;
  *aux3*)PORT_DIR="port/aux3";;
  *bsd2*)PORT_DIR="port/bsdos2";;
  *bsd*)PORT_DIR="port/bsdos";;
  *cygwin*)PORT_DIR="port/cygwin";;
  *darwin*)PORT_DIR="port/darwin";;
  *osf*)PORT_DIR="port/decunix";;
  *freebsd*)PORT_DIR="port/freebsd";;
  *hpux9*)PORT_DIR="port/hpux9";;
  *hpux10*)PORT_DIR="port/hpux10";;
  *hpux11*)PORT_DIR="port/hpux";;
  *irix*)PORT_DIR="port/irix";;
  *linux*)PORT_DIR="port/linux";;
  *lynxos*)PORT_DIR="port/lynxos";;
  *mpe*)PORT_DIR="port/mpe";;
  *netbsd*)PORT_DIR="port/netbsd";;
  *next*)PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]][*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
PORT_DIR="port/solaris";;
*-solaris2.5*)
BSD_COMP="#define BSD_COMP 1"
SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"]
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([ #include <netdb.h>
[struct addrinfo a; return (0)];
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([ #include <netdb.h>
[int i = sethostent(0); return(0)];
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([ #include <netdb.h>
[int i = endhostent(); return(0)];
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"]
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([ #include <netdb.h>
[int i = setnetent(0); return(0)];
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"]
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE([ #include <netdb.h>
[AC_MSG_RESULT(no)])
[int i = endnetent(); return(0);].

[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"]
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>]
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
[ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
[ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
[ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
[ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
[ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"],
[ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_DEFINE(HAVE_GETADDRINFO)

AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAIISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
[NEED_PSELECT="#undef NEED_PSELECT"],
[NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
[NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
[NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY"])
[NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"]
AC_SUBST(NEED_GETTIMEOFDAY)

AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
    #include <sys/param.h>
    #include <sys/sysctl.h>
    #include <sys/socket.h>
    ifndef NET_RT_IFLIST
    found_rt_iflist
    endif
    ],
    [AC_MSG_RESULT(yes)
     AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
    [ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
    [ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
    [ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
    [USE_SYSERROR_LIST="#undef USE_SYSERROR_LIST"],
    [USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)
#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))
#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>

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#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
]

ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long]]

ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int))
))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
].
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *ngroups"
.
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
).
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define __OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer, int buflen) {} 
].
[return (0)],
[}
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA"

AC_TRY_COMPILE(
[
    #define _REENTRANT
    #define _OSF_SOURCE
    #define __USE_MISC
    #include <netdb.h>

    int getnetbyaddr_r (unsigned long int, int, struct netent *, char *, size_t, struct netent **, int *);
],
[return (0)],

AC_TRY_COMPILE(
[
    #define _REENTRANT
    #define _OSF_SOURCE
    #define __USE_MISC
    #include <netdb.h>

    extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],

NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
].
AC_TRY_COMPILE(
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)

NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
) case "$host" in
*=dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
    [  
        #undef __USE_MISC  
        #define __USE_MISC 
        #include <netdb.h>  
        void setnetent_r (int);  
    ],[return (0);],
    NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
    NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
    NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
 ),
AC_TRY_COMPILE(
    [  
        #define _REENTRANT  
        #undef __USE_MISC 
        #define __USE_MISC 
        #include <netdb.h>  
        extern int setnetent_r(int, struct netent_data *);  
    ],[return (0);],
    NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
    NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
    NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
 ),
)
)
)

NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
    [  
        #undef _REENTRANT  
        #define _REENTRANT 
        #undef __USE_MISC 
        #define __USE_MISC 
        #include <netdb.h>
    ],[return (0);],
    NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
    NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
    NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
    #define NET_R_OK return (0)
    #define NET_R_SET_RETURN return (0)
    #define NET_R_OK return (0)
})
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void endnetent_r (void);
] , [return (0)];[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
] , [return (0)];[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
] , [return (0)];[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
) )
)
)
.
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
) AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,, AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,, AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
   int buflen) { }
}
```c
#define GROUP_R_ARGS char *buf, int buflen
#define GROUP_R_BAD NULL
#define GROUP_R_OK gptr
#define GROUP_R_RETURN struct group *

#define GROUP_R_END_RESULT /*empty*/
#define GROUP_R_END_RETURN void
#define GROUP_R_ENT_ARGS void

#define NEED_GETGRENT_R

#define NEED_ENDGRENT_R

#define NEED_SETGRENT_R

#interface gethostbyname_r

#include <netdb.h>

struct hostent *gethostbyname_r(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
AC_TRY_COMPILE(
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int gethostbyname_r(const char *name,
        struct hostent *result,
        struct hostent_data *hdptr);
},
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE(
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int gethostbyname_r (const char *,
        struct hostent *,
        char *, size_t,
        struct hostent **,
        int *
    );
},
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
},
))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int endhostent_r(struct hostent_data *buffer);
},
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE({
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void endhostent_r(struct hostent_data *ht_data);
},[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"

AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void endhostent_r(void);
],[]
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"

AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void sethostent_r(int flag, struct hostent_data *ht_data);
],[]
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_END_RETURN="#define HOST_R_SET_RETURN void"
]
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_SET_RESULT)

AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int sethostent_r(int flag, struct hostent_data *ht_data);
],[]
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
]
AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int sethostent_r(int flag, struct hostent_data *ht_data);
],[]
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
]
AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int sethostent_r(int flag, struct hostent_data *ht_data);
],[]
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
]
AC_TRY_COMPILE[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int sethostent_r(int flag, struct hostent_data *ht_data);
],[]
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
]
```c
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

void sethostent_r (int);

HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"

AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE({
#include <sys/types.h>
#include <pwd.h>
}[struct passwd *pw; pw->pw_class = ";"],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
})

AC_TRY_COMPILE({
#include <sys/types.h>
#include <pwd.h>
void setpwent(void) {}
},
{return (0);},
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <grp.h>
void setgrent(void) {}
},
},{
{return (0);},
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <grp.h>
void setgrent(void) {}
}
),

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```
SETGRENVOID="#define SETGRENVOID 1"

AC_SUBST(SETGRENVOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
    [ undef __USE_MISC
    #include <netdb.h>
    int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {} 
    ]
    ,
    [ return (0);],
    [ NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
    NGR_R_BAD="#define NGR_R_BAD (0)"
    NGR_R_COPY="#define NGR_R_COPY buf, buflen"
    NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
    NGR_R_OK="#define NGR_R_OK 1"
    NGR_R_RETURN="#define NGR_R_RETURN int"
    ]
    ,
    AC_TRY_COMPILE(
        [ undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {} 
        ]
        ,
        [ return (0);],
        [ NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
        NGR_R_BAD="#define NGR_R_BAD (0)"
        NGR_R_COPY="#define NGR_R_COPY buf, buflen"
        NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
        NGR_R_OK="#define NGR_R_OK 1"
        NGR_R_RETURN="#define NGR_R_RETURN int"
        ]
        ,
        AC_TRY_COMPILE(
            [ undef __USE_MISC
            #define __USE_MISC


#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
[ return (0);],
[ NG_R_ARGS="#define NGR_R_ARGS void **buf"
NG_R_BAD="#define NGR_R_BAD (0)"
NG_R_COPY="#define NGR_R_COPY buf"
NG_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NG_R_OK="#define NGR_R_OK 1"
NG_R_RETURN="#define NGR_R_RETURN int"
NG_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
[ .
)
)
)
.
.
NG_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NG_R_BAD="#define NGR_R_BAD (0)"
NG_R_COPY="#define NGR_R_COPY buf, buflen"
NG_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NG_R_OK="#define NGR_R_OK 1"
NG_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NG_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NG_R_END_RESULT="#define NGR_R_END_RESULT int"
NG_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
.
NG_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NG_R_END_RETURN="#define NGR_R_END_RETURN /*empty*/"
NG_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_ENT_ARGS)
AC_CHECK_FUNC(setnetgrent_r,
[ case "$host" in
  *bsd*)
   NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
   NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
   ;
  *)
   NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
   NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
   ;
   esac
  ]
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
) AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[ #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  struct protoent *getprotoent_r(struct protoent *result,
      char *buf, int buflen) {}]
  ,
  [return (0);]
  ,
  [PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
     PROTO_R_BAD="#define PROTO_R_BAD NULL"
     PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
     PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
     PROTO_R_OK="#define PROTO_R_OK pptr"
     PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
     PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
  ]
  ,
  AC_TRY_COMPILE(
    [ #undef __USE_MISC
      #define __USE_MISC

#include <netdb.h>

int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);

[, , [return (0);], ]

, 

PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
, , )
, )
, 

PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[, , [undef_REENTRANT
#define_REENTRANT
#undef__USE_MISC
#define__USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
, , ]


AC_CHECK_FUNC(setprotoent_r, 
AC_TRY_COMPILE( 
[ 
#undef __REENTRANT 
#define __REENTRANT 
#undef __USE_MISC 
#define __USE_MISC 
#include <netdb.h> 
void setprotoent_r __P((int)); 
],[], 
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT" 
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
, 
) 
)

AC_SUBST(PROTO_R_SET_RESULT) 
AC_SUBST(PROTO_R_SET_RETURN) 

AC_CHECK_FUNC(getpwent_r, 
AC_TRY_COMPILE( 
[ 
#include <sys/types.h> 
#include <pwd.h> 
struct passwd * 
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {} 
] ] [], 
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"

AC_DEFINE(NEED_GETPWNENT_R)

AC_TRY_COMPILE(
    [include <pwd.h>
    void endpwent_r(FILE **pwfp);
    ], ,
    PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
    PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
    PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
    ,
    )
    AC_DEFINE(NEED_ENDPWENT_R)

AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)

AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
    AC_TRY_COMPILE([}
#include <pwd.h>
void setpwent_r(FILE **pwfp);

PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"

AC_TRY_COMPILE(
#include <pwd.h>
int setpwent_r(FILE **pwfp);

PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"

)

AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r, AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r, AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
{return (0);},
]
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent */

)
int getservent_r (struct servent *, char *, size_t, struct servent **);
]

SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]

SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[  #undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]

SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void"
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void            setservent_r(int);
]
,,
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,,
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
,,
[
INNETGR_ARGS="#undef INNETGR_ARGS"
]

AC_TRY_COMPILE(
[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <unistd.h>
    #include <netdb.h>
    int innetgr(char *netgroup, char *host, char *user, char *domain);
]
"
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
)


AC_TRY_COMPILE(
[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <unistd.h>
    #include <netdb.h>
    void setnetgrent(const char *);
]
"
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,

AC_TRY_COMPILE(
[
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <unistd.h>
    #include <netdb.h>
    void setnetgrent(char *);
]
"
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
AC_SUBST(SETNETGREAT_ARGS)
AC_SUBST(INETGREAT_ARGS)

# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
  -*.bsd3.1*)
    hack_shutup_sputaux=yes
    ;;
  -*.bsd4.0*)
    hack_shutup_sigwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init_macros=yes
    ;;
  -*.bsd4.1*)
    hack_shutup_stdargcast=yes
    ;;
  -*.solaris2.8)
    hack_shutup_pthreadonceinit=yes
    hack_shutup_in6addr_init_macros=yes
    ;;
  esac

  case "$hack_shutup_pthreadonceinit" in
    yes)
      # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
      #
      ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
      ;;
  esac

    case "$hack_shutup_sigwait" in
    yes)
      # Shut up a -Wmissing-prototypes warning for sigwait().
      #
      AC_DEFINE(SHUTUP_SIGWAIT)
      ;;
esac

case "$hack_shutup_sputaux" in
yes)
  #
  # Shut up a -Wmissing-prototypes warning from <stdio.h>.
  #
  AC_DEFINE(SHUTUP_SPUTAUX)
  ;;
esac

case "$hack_shutup_stdargcast" in
yes)
  #
  # Shut up a -Wcast-qual warning from va_start().
  #
  AC_DEFINE(SHUTUP_STDARG_CAST)
  ;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
  AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
  ;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

.. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"$
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
   make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwinetpton.c
*/

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/dns/include/dns/version.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/isc/cc/win32/DLLMain.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/isc/unix_strerror.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/iscfg/include/iscfg/log.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/isc/win32/include/isc/platform.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/dns/win32/DLLMain.c
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" $Id: lwres_noop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"
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/*
 * Get the response to 'request' by filling in 'message'.
 *
 * 'options' is passed to dns_message_parse(). See dns_message_parse()
 * for more details.
 *
 * Requires:
 *
 * 'request' is a valid request for which the caller has received the
 * completion event.
 *
 * The result code of the completion event was ISC_R_SUCCESS.
 *
 * Returns:
 *
 * ISC_R_SUCCESS
 *
 * Any result that dns_message_parse() can return.
 */

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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

#ifndef LWRES_PLATFORM_H
#define LWRES_PLATFORM_H 1

/*****
***** Platform-dependent defines.
*****/

/****
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file for IPv6.
* /
@LWRES_PLATFORM_NEEDINETINET6H@

/*
* Define if this system needs the <netinet6/in6.h> header file for IPv6.
* /
@LWRES_PLATFORM_NEEDINETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
* /
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
* /
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback,
 * LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
 */
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in_addr6, rather than in6_addr,
 * LWRES_PLATFORM_HAVEINADDR6 will be defined.
 */
@LWRES_PLATFORM_HAVEINADDR6@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@LWRES_PLATFORM_NEEDSYSEXCLUDETH@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@LWRES_PLATFORM_USEDECLSPEC@

/*
 * Defined this system needs vsnprintf() and snprintf().
 */
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@LWRES_PLATFORM_NEEDSPRINTF@

#endif /* LWRES_PLATFORM_H */
Found in path(s):
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/symtab.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/sexpr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/alist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/ccmsg.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/include/isccc/types.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccc/sexpr.c

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/opensslrsa_link.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isccfg/parser.c
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/*
 * eventlib.em
 *
 * Eventlib error message compiler input file
 *
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 */

/*
 * The file basename is the facility name, the name is made
 * uppercase. This file defines facility EVENTLIB
 */
module {
    description "EVENTLIB system messages";
}
errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog."
    }
    action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save this summary message along with the HOG error. ";

    tac_details
        "Eventlib historical summary for detected hog."
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
        "char *" any_string "element callback render buffer"
    }
    explanation
        "Eventlib historical element for detected hog."
    }
    action
        "This event element is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save all element messages along with the HOG error. ";
“Eventlib historical element for detected hog.”;
}

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"
" The following six UNCOMMENTED lines are required.
"Os OPERATING_SYSTEM  [version/release]
"Dt DOCUMENT_TITLE  [section number]  [volume]
" This next request is for sections 1, 6, 7 & 8 only
".Sh ENVIRONMENT
".Sh FILES
".Sh EXAMPLES
" This next request is for sections 1, 6, 7 & 8 only
" command return values (to shell) and
" fprintf/stderr type diagnostics

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"" .Sh DIAGNOSTICS
"" The next request is for sections 2 and 3 error
"" and signal handling only.
"" .Sh STANDARDS
"" .Sh HISTORY
"" .Sh BUGS

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/sockaddr.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/name.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/socket.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/nls/msgcat.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/nsap-ptr_23.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/serial.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/syslog.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/dst/include/dst/lib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dname_39.h
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"The following six UNCOMMENTED lines are required."

"OS OPERATING_SYSTEM [version/release]"

"DOCUMENT_TITLE [section number] [volume]"

"The following requests should be uncommented and used where appropriate. This next request is for sections 2 and 3 function return values only."
This next request is for sections 1, 6, 7 & 8 only
".Sh ENVIRONMENT
".Sh EXAMPLES
This next request is for sections 1, 6, 7 & 8 only
(command return values (to shell) and
fprintf(stderr type diagnostics)
".Sh DIAGNOSTICS
The next request is for sections 2 and 3 error
and signal handling only.
".Sh STANDARDS
".Sh HISTORY
".Sh BUGS

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sdb.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/peer.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/ssu.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/string.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/context.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/pthreads/thread.c
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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<refentry>
  <refentryinfo>
    <date>Jun 30, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_getipnode</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_getipnodebyname</refname>
    <refname>lwres_getipnodebyaddr</refname>
    <refname>lwres_freehostent</refname>
    <refpurpose>lightweight resolver nodename / address translation API</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    <funcsynopsis>
      #include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>
    </funcsynopsis>
    <paramdef>const char *name</paramdef>
    <paramdef>int af</paramdef>
    <paramdef>int flags</paramdef>
    <paramdef>int *error_num</paramdef>
  </refsynopsisdiv>
</refentry>
These functions perform thread safe, protocol independent nodename-to-address and address-to-nodename translation as defined in RFC2553.

They use a `struct hostent` which is defined in `<namedb.h>`:

```c
struct hostent {
    char *h_name;    /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

The members of this structure are:
<varlistentry><term><constant>h_name</constant></term>
</varlistentry>
<listitem>
<para>
The official (canonical) name of the host.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>h_aliases</constant></term>
</varlistentry>
<listitem>
<para>
A NULL-terminated array of alternate names (nicknames) for the host.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>h_addrtype</constant></term>
</varlistentry>
<listitem>
<para>
The type of address being returned - usually
<type>PF_INET</type> or <type>PF_INET6</type>.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>h_length</constant></term>
</varlistentry>
<listitem>
<para>
The length of the address in bytes.
</para>
</listitem></varlistentry>

<varlistentry><term><constant>h_addr_list</constant></term>
</varlistentry>
<listitem>
<para>
A NULL-terminated array of network addresses for the host. Host addresses are returned in network byte order.
</para>
</listitem></varlistentry>

The function <function>lwres_getipnodebyname()</function> looks up addresses of protocol family
<parameter>af</parameter>

for the hostname
<parameter>name</parameter>.
The parameter contains ORed flag bits to specify the types of addresses that are searched for, and the types of addresses that are returned. The flag bits are:

This is used with an

<parameter>af</parameter>
of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

This is used with an

<parameter>af</parameter>
of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.

This default sets the

<constant>AI_V4MAPPED</constant>
and

<constant>AI_ADDRCONFIG</constant>
flag bits.

<function>lwres_getipnodebyaddr()</function>
performs a reverse lookup
of address
<parameter>src</parameter>
which is
<parameter>len</parameter>
bytes long.
<parameter>af</parameter>
denotes the protocol family, typically
<type>PF_INET</type>
or
<type>PF_INET6</type>.

</para>
<para>
<function>lwres_freehostent()</function>
releases all the memory associated with
the
<type>struct hostent</type>
pointer
<parameter>he</parameter>.

Any memory allocated for the
<constant>h_name</constant>,

<constant>h_addr_list</constant>
and
<constant>h_aliases</constant>
is freed, as is the memory for the
<type>hostent</type>
structure itself.
</para>
</refsect1>
</refsect1>
<title>RETURN VALUES</title>
<para>
If an error occurs,
<function>lwres_getipnodebyname()</function>
and
<function>lwres_getipnodebyaddr()</function>
set
<parameter>*error_num</parameter>
to an appropriate error code and the function returns a
<type>NULL</type>
pointer.
The error codes and their meanings are defined in
<filename>&lt;lwres/netdb.h&gt;</filename>:
<varlistentry>
<term><constant>HOST_NOT_FOUND</constant></term>
</varlistentry>
No such host is known.

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

An unexpected failure occurred, and retrying the request is pointless.

translates these error codes to suitable error messages.
<citerefentry>
<refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum></citerefentry>,

<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum></citerefentry>,

<citerefentry>
<refentrytitle>lwres_getnameinfo</refentrytitle><manvolnum>3</manvolnum></citerefentry>,

<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
</refsect1>
</refentry>

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/opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/sec/dst/dst_parse.c
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<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_resutil</refentrytitle>
<manvolnum>3</manvolnum> <refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsis>
</funcdef>

lwres_result_t
<function>lwres_string_parse</function>
<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.
</para>
<para><function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.</para>

<para><function>lwres_getaddrsbyname()</function> and <function>lwres_getnamebyaddr()</function> use the <type>lwres_gnbaresponse_t</type> structure defined below:
<programlisting>
typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                  **aliases;
    lwres_uint16_t          realnamelen;
    lwres_uint16_t         *aliaslen;
    lwres_addrlist_t       addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gabnresponse_t;
</programlisting>
The contents of this structure are not manipulated directly but they are controlled through the <citerefentry><refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum></citerefentry> functions.
</para>

<para>The lightweight resolver uses <function>lwres_getaddrsbyname()</function> to perform forward lookups. Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.
<parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are <type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and <type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.

</para>

<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by <parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>

</para>

</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
Successful calls to <function>lwres_string_parse()</function> and <function>lwres_addr_parse()</function> return <errorcode>LWRES_R_SUCCESS.</errorcode> Both functions return <errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>
<function>lwres_getaddrsbyname()</function> returns <errorcode>LWRES_R_SUCCESS</errorcode> on success and it returns <errorcode>LWRES_R_NOTFOUND</errorcode> if the hostname <parameter>name</parameter> could not be found.

</para>

<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned by a successful call to
Both
\begin{function}\texttt{lwres_getaddrsbyname()}\end{function}
and
\begin{function}\texttt{lwres_getnamebyaddr()}\end{function}
return
\begin{errorcode}\texttt{LWRES_R_NOMEMORY}\end{errorcode}
when memory allocation requests fail and
\begin{errorcode}\texttt{LWRES_R_UNEXPECTEDEND}\end{errorcode}
if the buffers used for sending queries and receiving replies are too small.

\begin{refsect}
\title{SEE ALSO}
\para
\citerefentry
\refentrytitle{lwres_buffer}\citerefentry\manvolnum{3}\citerefentry,
\refentrytitle{lwres_gabn}\citerefentry\manvolnum{3}\citerefentry.
\para
\refsect
\refentry

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 * msg_eventlib.c - Error messages for evlib
 * January 2007, Vikram Visweswaraiah
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservent_r.c
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* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
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* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
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*/

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/lynvos/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h

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"Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/syslog.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/parseint.c
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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
<refentry>
  <refentryinfo>
    <date>Jun 30, 2000</date>
  </refentryinfo>
  <refmeta>
    <refentrytitle>lwres_getaddrinfo</refentrytitle>
    <manvolnum>3</manvolnum>
    <refmiscinfo>BIND9</refmiscinfo>
  </refmeta>
  <refnamediv>
    <refname>lwres_getaddrinfo</refname>
    <refname>lwres_freeaddrinfo</refname>
    <refpurpose>socket address structure to host and service name</refpurpose>
  </refnamediv>
  <refsynopsisdiv>
    #include &lt;lwres/netdb.h&gt;
  </refsynopsisdiv>
  <funcdef>
    int
    <function>lwres_getaddrinfo</function>
    <paramdef>const char *hostname</paramdef>
    <paramdef>const char *servname</paramdef>
    <paramdef>const struct addrinfo *hints</paramdef>
    <paramdef>struct addrinfo **res</paramdef>
  </funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freeaddrinfo</function></funcdef>
<paramdef>struct addrinfo *ai</paramdef>
</funcprototype>
</funcsynopsis>

<para>
If the operating system does not provide a
<type>struct addrinfo</type>,
the following structure is used:

<programlisting>
struct  addrinfo {
    int             ai_flags;       /* AI_PASSIVE, AI_CANONNAME */
    int             ai_family;      /* PF_xxx */
    int             ai_socktype;    /* SOCK_xxx */
    int             ai_protocol;    /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t          ai_addrlen;     /* length of ai_addr */
    char            *ai_canonname;  /* canonical name for hostname */
    struct sockaddr *ai_addr;       /* binary address */
    struct addrinfo *ai_next;       /* next structure in linked list */
};
</programlisting>
</para>

</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_getaddrinfo()</function>
is used to get a list of IP addresses and port numbers for host
<parameter>hostname</parameter>
and service
<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of
<function>getaddrinfo()</function>
as defined in RFC2133.
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are pointers to null-terminated strings or
<type>NULL</type>.
<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.
The caller can supply the following structure elements in <parameter>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term><listitem><para>The protocol family that should be used.
When <constant>ai_family</constant> is set to <type>PF_UNSPEC</type>, it means the caller will accept any protocol family supported by the operating system.
</para></listitem>
<varlistentry><term><constant>ai_socktype</constant></term><listitem><para>denotes the type of socket — <type>SOCK_STREAM</type>, <type>SOCK_DGRAM</type> or <type>SOCK_RAW</type> — that is wanted.
When <constant>ai_socktype</constant> is zero the caller will accept any socket type.
</para></listitem>
<varlistentry><term><constant>ai_protocol</constant></term><listitem><para>indicates which transport protocol is wanted: IPPROTO_UDP or IPPROTO_TCP.
If
<constant>ai_protocol</constant>
is zero the caller will accept any protocol.
</para>
</listitem>
</varlistentry>
</varlistentry>
<varlistentry><term><constant>ai_flags</constant></term>

Flag bits.
If the
<type>AI_CANONNAME</type>
bit is set, a successful call to
<function>lwres_getaddrinfo()</function>
will return a null-terminated string containing the canonical name
of the specified hostname in
<constant>ai_canonname</constant>
of the first
<type>addrinfo</type>
structure returned.
Setting the
<type>AI_PASSIVE</type>
bit indicates that the returned socket address structure is intended
for use in a call to
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

In this case, if the hostname argument is a
<type>NULL</type>
pointer, then the IP address portion of the socket
address structure will be set to
<type>INADDR_ANY</type>
for an IPv4 address or
<type>IN6ADDR_ANY_INIT</type>
for an IPv6 address.
</para>

When
<constant>ai_flags</constant>
does not set the
<type>AI_PASSIVE</type>
bit, the returned socket address structure will be ready
for use in a call to
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.
for a connection-oriented protocol or
<refentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</refentry>,

<refentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</refentry>,

or
<refentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</refentry>
if a connectionless protocol was chosen.
The IP address portion of the socket address structure will be
set to the loopback address if
<parameter>hostname</parameter> is a
<type>NULL</type>
pointer and
<type>AI_PASSIVE</type>
is not set in
<constant>ai_flags</constant>,
</para>
<para>
If
<constant>ai_flags</constant>
is set to
<type>AI_NUMERICHOST</type>
it indicates that
<parameter>hostname</parameter>
should be treated as a numeric string defining an IPv4 or IPv6 address
and no name resolution should be attempted.
</para>
</listitem>
</varlistentry>
</variablelist>
</para>
<para>
All other elements of the <type>struct addrinfo</type> passed
via <parameter>hints</parameter> must be zero.
</para>

<para>
A <parameter>hints</parameter> of <type>NULL</type> is treated as if
the caller provided a <type>struct addrinfo</type> initialized to zero
with <constant>ai_family</constant> set to <constant>PF_UNSPEC</constant>.
</para>

<para>
After a successful call to <function>lwres_getaddrinfo()</function>, <parameter>*res</parameter> is a pointer to a linked list of one or more <type>addrinfo</type> structures. Each <type>struct addrinfo</type> in this list can be processed by following the <constant>ai_next</constant> pointer, until a <type>NULL</type> pointer is encountered. The three members <constant>ai_family</constant>, <constant>ai_socktype</constant>, and <constant>ai_protocol</constant> in each returned <type>addrinfo</type> structure contain the corresponding arguments for a call to <citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>. For each <type>addrinfo</type> structure in the list, the <constant>ai_addr</constant> member points to a filled-in socket address structure of length <constant>ai_addrlen</constant>.
</para>

<para>
All of the information returned by <function>lwres_getaddrinfo()</function> is dynamically allocated: the addrinfo structures, and the socket address structures and canonical host name strings pointed to by the <constant>addrinfo</constant> structures. Memory allocated for the dynamically allocated structures created by a successful call to <function>lwres_getaddrinfo()</function>
is released by
<function>lwres_freeaddrinfo()/function>
<parameter>ai</parameter>
is a pointer to a
<type>struct addrinfo</type>
created by a call to
<function>lwres_getaddrinfo()/function>
</para>
</refsect1>

<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_getaddrinfo()/function>
returns zero on success or one of the error codes listed in
<citerefentry>
<refentrytitle>gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
</para>
</refsect1>
<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,

<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

</refsect1>
</refentry>

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 * BINOS specific changes to associate memcluster with an evctx
 *
 * March 2014, Aswin Kuppusami
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_pton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_ntop.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_net_pton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/dns_pw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getservent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_nw.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/gen_p.h
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/nis_sv.c
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hesiod_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/irs/hpux/include/sys/bitypes.h
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MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1
-

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1
-

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1
-

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/tkey.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/generic/rt_21.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/generic/tkey_249.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/in_1/kx_36.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/generic/afsdb_18.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/in_1/srv_33.c

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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*****
 ***** Platform-dependent defines.
 *****/ 

/***
*** Network.
***/ 

/*
* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddr on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@
/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pktinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
 * defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@

/*
 * If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
 */
@ISC_PLATFORM_NEEDNTOP@

/*
 * If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
 */
@ISC_PLATFORM_NEEDPTON@

/*
 * If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
 */
@ISC_PLATFORM_NEEDATON@

/*
 * If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
 */
@ISC_PLATFORM_NEEDPORTT@
/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCPY@

/*
* If the system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_* macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/***
*** Printing.
***/

/*
* If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
* will be defined.
*/
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@ISC_PLATFORM_NEEDSPRINTF@
/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause fd_set to be declared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@
* Define if the system supports if_nametoindex.*

/*@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
* Define if this system needs strtoul.
*/

/*@ISC_PLATFORM_NEEDSTRTOUL@

/*
* Define if this system needs memmove.
*/

/*@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif

#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif

#endif /* ISC_PLATFORM_USEDECLSPEC */
#endif /* ISC_PLATFORM_H */

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# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \ 
-Is${top_srcdir}/lib/isc \ 
-Is${top_srcdir}/lib/isc/include \ 
-Is${top_srcdir}/lib/isc/unix/include \ 
-Is${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \ 
-Is${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \ 
-Is${top_srcdir}/lib/dns/include \ 
-Is${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \ 
-Is${top_srcdir}/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
-I${top_srcdir}/lib/lwres/include

TEST_INCLUDES = \
-I${top_srcdir}/lib/tests/include

Found in path(s):
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/make/includes.in
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  */

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  */opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/inet/inet_addr.c

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</refentryinfo>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
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<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;
</funcsynopsisinfo>
<funcprototype>
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<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
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<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>

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lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
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lwres_result_t
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<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
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<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
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void
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<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.
</para>
<para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;<type>lwres_gabnrequest_t</type> &mdash; to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash; <type>lwres_gabnresponse_t</type> &mdash; to the canonical format.
This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in `<lwres/lwres.h>`. They are shown below.

```c
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U

typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint32_t addrtypes;
    lwres_uint16_t namelen;
    char *name;
} lwres_gabnrequest_t;

typedef struct {
    lwres_uint32_t flags;
    lwres_uint16_t naliases;
    lwres_uint16_t naddrs;
    char *realname;
    char **aliases;
    lwres_uint16_t realnamelen;
    lwres_uint16_t *aliaslen;
    lwres_addrlist_t *addrs;
    void *base;
    size_t baselen;
} lwres_gabnresponse_t;
```

The contents of `lwres_gabnrequest_render()` uses resolver context `ctx` to convert getaddrbyname request structure `req` to canonical format.

The packet header structure `pkt` is initialised and transferred to buffer `b`.

The contents of
are then appended to the buffer in canonical format.

performs the same task, except it converts a getaddrbyname response structure to the lightweight resolver's canonical format.

<para>
<function>lwres_gabnrequest_parse()</function> uses context to convert the contents of packet to a Buffer. 
<parameter>b</parameter> provides space to be used for storing this structure. When the function succeeds, the resulting structure is made available through <parameter>*structp</parameter>.

<function>lwres_gabnresponse_parse()</function> offers the same semantics as <function>lwres_gabnrequest_parse()</function> except it yields a structure. 
<para>
<para>
<function>lwres_gabnresponse_free()</function> and <function>lwres_gabnrequest_free()</function> release the memory in resolver context that was allocated to the or structures referenced via <parameter>structp</parameter>. 

Any memory associated with ancillary buffers and strings for those structures is also discarded.
<refsect1>
<title>RETURN VALUES</title>
<para>
The getaddrbyname opcode functions
<function>lwres_gabnrequest_render()</function>,
<function>lwres_gabnresponse_render()</function>
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
all return
<errorcode>LWRES_R_SUCCESS</errorcode> on success.
They return
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory allocation fails.
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> is returned if the available space in the buffer
<parameter>b</parameter> is too small to accommodate the packet header or the
<type>lwres_gabnrequest_t</type> and
<type>lwres_gabnresponse_t</type> structures.
<function>lwres_gabnrequest_parse()</function>
and
<function>lwres_gabnresponse_parse()</function>
will return
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer is not empty after decoding the received packet.
These functions will return
<errorcode>LWRES_R_FAILURE</errorcode> if
<structfield>pktflags</structfield>
in the packet header structure
<type>lwres_lwpacket_t</type> indicate that the packet is not a response to an earlier query.
</para>
</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/md5_locl.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/dst/md5_dgst.c
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"
" $Id: lwres_hstrerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/bind/isc/ev_waits.c
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* By Steve Reid <steve@edmweb.com>
* 100% Public Domain

* Test Vectors (from FIPS PUB 180-1)
* "abc"
* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abcdedfghijklmnopqrstuvwxyz" 
* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/

Found in path(s):
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

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<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
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#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
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void
lwres_conf_init(lwres_context_t *ctx)
</funcdef>
<funcprototype>
<funcdef>
void
lwres_conf_clear(lwres_context_t *ctx)
</funcdef>
<funcprototype>
<funcdef>
lwres_result_t
lwres_conf_parse(lwres_context_t *ctx, const char *filename)
</funcdef>
<funcprototype>
<funcdef>
lwres_result_t
lwres_conf_print(lwres_context_t *ctx, FILE *fp)
</funcdef>
<funcprototype>
</funcprototype>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
</refentryinfo>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function> creates an empty <type>lwres_conf_t</type> structure for lightweight resolver context <parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function> frees up all the internal memory used by that <type>lwres_conf_t</type> structure in resolver context <parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function> opens the file <parameter>filename</parameter> and parses it to initialise the resolver context <parameter>ctx</parameter>’s <type>lwres_conf_t</type> structure.
</para>
<para>
<function>lwres_conf_print()</function> prints the <type>lwres_conf_t</type> structure for resolver context <parameter>ctx</parameter> to the <type>FILE</type> <parameter>fp</parameter>.
</para>
</refsect1>

<title>RETURN VALUES</title>
<para>
<function>lwres_conf_parse()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>. It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect resolver statements.
</para>
<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</para>
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/man/lwres_config.docbook
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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/base64.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/rwlock.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/result.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/rwlock.c
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$Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/include/dns/portlist.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/portlist.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/nsec_47.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/trsig_46.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/hash.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/sshfp_44.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h

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  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/keyboard.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/context.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/resource.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/nothreads/condition.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/lwpacket.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/include/isc/ntpaths.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/unix/resource.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/win32/unistd.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/version.c
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/isc/include/isc/fsaccess.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/include/lwres/lang.h
  * /opt/cola/permits/1130449963_1615189022.84/0/lib-tar/lib/lwres/gai_strerror.c
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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@item
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@enumerate
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@page
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c End:

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```

1.271 gnome-desktop-testing 2018.1 r0

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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

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-
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Theodore Ts'o
23-June-2007

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

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

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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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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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Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

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

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

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

all:: image

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

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

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../*.$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
  `echo $(my_dir) | sed -e \'s;lib/;"/$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
  @echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
  @$({INSTALL_PROGRAM} $(BSD_LIB) \ 
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB))
  @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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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.)

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/* GNU m4 -- A simple macro processor


This file is part of GNU M4.

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*/

#include "m4.h"

#include <getopt.h>
#include <limits.h>
#include <signal.h>
#include "c-stack.h"
#include "ignore-value.h"
#include "progname.h"
#include "version-etc.h"

#ifdef DEBUG_STKOVF
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4 words. */
const char *user_word_regexp = "";
*/
/* Global catchall for any errors that should affect final error status, but
 where we try to continue execution in the meantime. */
int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, \', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */
/*-------------------------------.
 | Wrapper around error.      |
 |-------------------------------*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                    current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-------------------------------.
 | Wrapper around error_at_line. |
 |-------------------------------*/

void
m4_error_at_line (int status, int errnum, const char *file, int line,
                  const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}
#ifndef SIGBUS
#define SIGBUS SIGILL
#endif

#ifndef NSIG
#ifndef MAX
#define MAX(a,b) ((a) < (b) ? (b) : (a))
#endif
#define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in the signal handler, since gettext and strsignal are not async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This must be async-signal safe, since it is executed as a signal handler. If SIGNO is zero, this represents a stack overflow; in that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE fault_handler (int signo)
{
    if (signo)
    {
        /* POSIX states that reading static memory is, in general, not async-safe. However, the static variables that we read are never modified once this handler is installed, so this particular usage is safe. And it seems an oversight that POSIX claims strlen is not async-safe. Ignore write failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
        WRITE (STDERR_FILENO, program_name, strlen (program_name));
        WRITE (STDERR_FILENO, "::", 2);
        WRITE (STDERR_FILENO, program_error_message, strlen (program_error_message));
        if (signal_message[signo])
        {
            WRITE (STDERR_FILENO, "::", 2);
            WRITE (STDERR_FILENO, signal_message[signo], strlen (signal_message[signo]));
        }
        WRITE (STDERR_FILENO, "n", 1);
#undef WRITE
        _exit (EXIT_INTERNAL_ERROR);
    }
}
static void
usage (int status)
{
  if (status != EXIT_SUCCESS)
    xfprintf (stderr, "Try `%s --help' for more information.
", program_name);
  else
    {
      xprintf ("Usage: %s OPTION... [FILE]...
", program_name);
      fputs ("\nProcess macros in FILEs. If no FILE or if FILE is `-', standard input
is read.\n", stdout);
      fputs ("\nMandatory or optional arguments to long options are mandatory or optional\nfor short options too.\n\nOperation modes:\n--help display this help and exit\n--version output version information and exit\n", stdout);
      xprintf ("\n-E, --fatal-warnings once: warnings become errors, twice: stop execution at first error\n-i, --interactive unbuffer output, ignore interrupts\n-P, --prefix-builtins force a `m4_' prefix to all builtins\n-Q, --quiet, --silent suppress some warnings for builtins\n--warn-macro-sequence[=REGEXP] warn if macro definition matches REGEXP, default %s\n", DEFAULT_MACRO_SEQUENCE);
      #ifdef ENABLE_CHANGEWORD
      fputs ("\n-W, --word-regexp=REGEXP use REGEXP for macro name syntax\n", stdout);
      #endif
    }
\nPreprocessor features:\n-D, --define=NAME[=VALUE] define NAME as having VALUE, or empty\n-I, --include=DIRECTORY append DIRECTORY to include path\n"
-s, --synclines     generate `#line NUM "FILE"' lines

-U, --undefine=NAME undefine NAME

", stdout);
    puts ("");
    xprintf (_("\n"));

Limits control:

-g, --gnu           override -G to re-enable GNU extensions

-G, --traditional   suppress all GNU extensions

-H, --hashsize=PRIME set symbol lookup hash table size [509]

-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]


Frozen state files:

-F, --freeze-state=FILE produce a frozen state on FILE at end

-R, --reload-state=FILE reload a frozen state from FILE at start

", stdout);
    fputs ("");

Debugging:

-d, --debug[=FLAGS] set debug level (no FLAGS implies `aeq')

   --debugfile[=FILE] redirect debug and trace output to FILE

   (default stderr, discard if empty string)

-l, --arglength=NUM restrict macro tracing size

-t, --trace=NAME trace NAME when it is defined

", stdout);
    fputs ("");

FLAGS is any of:

  a   show actual arguments

  c   show before collect, after collect and after call

  e   show expansion

  f   say current input file name

  i   show changes in input files

  l   say current input line number

  p   show results of path searches

  q   quote values as necessary, with a or e flag

  t   trace for all macro calls, not only traceon'ed

  x   add a unique macro call id, useful with c flag

  V   shorthand for all of the above flags

", stdout);
    fputs ("");

If defined, the environment variable `M4PATH' is a colon-separated list
of directories included after any specified by `-I'.

", stdout);
    fputs ("");

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Exit status is 0 for success, 1 for failure, 63 for frozen file version\n mismatch, or whatever value was passed to the m4exit macro.\n",
 stdout);
 emit_bug_reporting_address ();
 exit (status);
}

/*--------------------------------------.
 | Decode options and launch execution. |
 `--------------------------------------*/

/* For long options that have no equivalent short option, use a
 non-character as a pseudo short option, starting with CHAR_MAX + 1. */
 enum
{
 DEBUGFILEOPTION = CHAR_MAX + 1, /* no short opt */
 DIVERSIONSOPTION, /* not quite -N, because of message */
 WARN_MACRO_SEQUENCE_OPTION, /* no short opt */
 HELP_OPTION, /* no short opt */
 VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
 {"arglength", required_argument, NULL, 'l'},
 {"debug", optional_argument, NULL, 'd'},
 {"define", required_argument, NULL, 'D'},
 {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
 {"fatal-warnings", no_argument, NULL, 'E'},
 {"freeze-state", required_argument, NULL, 'F'},
 {"gnu", no_argument, NULL, 'g'},
 {"hashsize", required_argument, NULL, 'H'},
 {"include", required_argument, NULL, 'I'},
 {"interactive", no_argument, NULL, 'i'},
 {"nesting-limit", required_argument, NULL, 'L'},
 {"prefix-builtins", no_argument, NULL, 'P'},
 {"quiet", no_argument, NULL, 'Q'},
 {"reload-state", required_argument, NULL, 'R'},
 {"silent", no_argument, NULL, 'Q'},
 {"synclines", no_argument, NULL, 's'},
 {"trace", required_argument, NULL, 't'},
 {"traditional", no_argument, NULL, 'G'},
 {"undefined", required_argument, NULL, 'U'},
 #ifdef ENABLE_CHANGEWORD
 {"word-regexp", required_argument, NULL, 'W'},
 #endif
};
/* Process a command line file NAME, and return true only if it was stdin. */
static void
process_file (const char *name)
{
if (STREQ (name, "-"))
{
    /* If stdin is a terminal, we want to allow 'm4 - file -'
       to read input from stdin twice, like GNU cat. Besides,
       there is no point closing stdin before wrapped text, to
       minimize bugs in syscmd called from wrapped text. */
    push_file (stdin, "stdin", false);
}
else
{
    char *full_name;
    FILE *fp = m4_path_search (name, &full_name);
    if (fp == NULL)
    {
        error (0, errno, _("cannot open `\%s"), name);
        /* Set the status to EXIT_FAILURE, even though we
           continue to process files after a missing file. */
        retcode = EXIT_FAILURE;
        return;
    }
    push_file (fp, full_name, true);
    free (full_name);
}
expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two
   must be recognized when interspersed with file names. Traditional
   behavior also handles -s between files. Starting OPTSTRING with
   `-r' forces getopt_long to hand back file names as arguments to opt
   \'V', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#else
#endif

int main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;       /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;                  /* option character */
    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = ""
    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack overflow and program error handling. Ignore failure to
     * install a handler, since this is merely for improved output on
     * crash, and we should never crash ;). We install SIGBUS and
     * SIGSEGV handlers prior to using the c-stack module; depending on
     * the platform, c-stack will then override none, SIGSEGV, or both
     * handlers. */
    program_error_message
        = xasprintf (_("internal error detected; please report this bug to <%s>"),
            PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)
        signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
    sigemptyset (&act.sa_mask);
    /* One-shot - if we fault while handling a fault, we want to revert
     * to default signal behavior. */
    act.sa_flags = SA_NODEFER | SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
    /* Make it easier to test our fault handlers. Exporting M4_CRASH=0 attempts a SIGSEGV, exporting it as 1 attempts an assertion failure with a fallback to abort. */
    {
        char *crash = getenv ("M4_CRASH");
        if (crash)
            {
                if (!strtol (crash, NULL, 10))
                    ++*(int *) 8;
                assert (false);
                abort ();
            }
    }
#endif /* DEBUG_STKOVF */

    /* First, we decode the arguments, to size up tables and stuff. */
    head = tail = NULL;

    while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
                                long_options, NULL)) != -1)
        switch (optchar)
        {
            default:
                usage (EXIT_FAILURE);

            case 'B':
            case 'S':
            case 'T':
                /* Compatibility junk: options that other implementations support, but which we ignore as no-ops and don't list in --help. */
                error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),
                       optchar);
                break;

            case 'N':
            case DIVERSIONS_OPTION:
                /* -N became an obsolete no-op in 1.4.x. */
error (0, 0, _("warning: `m4 %s' is deprecated"),
    optarg == 'N' ? "-N" : "--diversions");
break;

case 'D':
    break;

case 'U':
    break;

 case 's':
    break;

 case 't':
    break;

 case '\1':
    case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */
    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optarg;
    defn->arg = optarg;
    defn->next = NULL;
    if (head == NULL)
        head = defn;
    else
        tail->next = defn;
    tail = defn;
    break;

 case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

 case 'F':
    frozen_file_to_write = optarg;
    break;

 case 'G':
    no_gnu_extensions = 1;
    break;

 case 'H':
    hash_table_size = strtol (optarg, NULL, 10);
    if (hash_table_size == 0)
        hash_table_size = HASHMAX;
    break;

 case 'T':
    add_include_directory (optarg);
break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
    break;

case 'P':
    prefix_all_builtins = 1;
    break;

case 'Q':
    suppress_warnings = 1;
    break;

case 'R':
    frozen_file_to_read = optarg;
    break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp = optarg;
        break;
#endif

    case 'd':
        debug_level = debug_decode (optarg);
        if (debug_level < 0)
            {
                error (0, 0, _("bad debug flags: \"%s\""), optarg);
                debug_level = 0;
            }
        break;

case 'e':
    error (0, 0, _("warning: \"m4 -e\" is deprecated, use \"-i\" instead"));
    /* fall through */
    case 'i':
        interactive = true;
        break;

case 'g':
    no.gnu_extensions  = 0;
    break;

case 'T':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
break;

case 'o':
/* -o/--error-output are deprecated synonyms of --debugfile,
   but don't issue a deprecation warning until autoconf 2.61
or later is more widely established, as such a warning
would interfere with all earlier versions of autoconf. */
/* Don't call debug_set_output here, as it has side effects. */
def debugfile = optarg;
break;

case WARN_MACRO_SEQUENCE_OPTION:
/* Don't call set_macro_sequence here, as it can exit.
   --warn-macro-sequence sets optarg to NULL (which uses the
default regexp);  --warn-macro-sequence= sets optarg to ""
   (which disables these warnings). */
define macro_sequence = optarg;
break;

case VERSION_OPTION:
define version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
exit (EXIT_SUCCESS);
break;

case HELP_OPTION:
define usage (EXIT_SUCCESS);
break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
   M4ERROR (((warning_status, errno, "cannot set debug file \"%s\", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);
include_env_init ();

if (frozen_file_to_read)
   reload_frozen_state (frozen_file_to_read);
else
   builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */
if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
   initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
    case 'D':
        {
/* defines->arg is read-only, so we need a copy. */
        char *macro_name = xstrdup (defines->arg);
        char *macro_value = strchr (macro_name, '=');
        if (macro_value)
            *macro_value++ = '\0';
        define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
        free (macro_name);
        }
        break;
    case 'U':
        lookup_symbol (defines->arg, SYMBOL_DELETE);
        break;
    case 't':
        sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
        SYMBOL_TRACED (sym) = true;
        break;
    case 's':
        sync_output = 1;
        break;
    case '\1':
        seen_file = true;
        process_file (defines->arg);
        break;
    case DEBUGFILE_OPTION:
        if (!debug_set_output (defines->arg))
M4ERROR ((warning_status, errno, "cannot set debug file "%s",
        debugfile ? debugfile : (_("stderr")));

break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input, 
and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug 
stream and detect any errors it might have encountered. The 
three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
{
    make_diversion (0);
    undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);
1.277 systemd-shim 239-43.el8

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* /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/fixup_parser_extension.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/SimpleELF.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/Makefile
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/extract_func_calls.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/SimpleCType.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/bat_structoffset.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/parser_bin_tool.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/extract_address.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/graph_algo.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/SimpleTraverser.py
* /opt/cola/permits/1130449857_1615191950.34/0/elfutils-tar/binary_tool/ddutils.py
No license file was found, but licenses were detected in source scan.

/*/ 
* lua_ex_api.c 
*
1.284 zlib 1.2.11-17.el8

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1.285 libcap-ng 0.7.9 5.el8

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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PCRE JUST-IN-TIME COMPIILATION SUPPORT
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form of a work.

A "Standard Interface" means an interface that either is an official
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1.302 python-decorator 4.4.0 r0

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1.308 python-pyudev 0.21.0 r0

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1.323 pcre2 10.32 2.el8
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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
-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.324 lighttpd 1.4.54 r0
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1.325 tputs-c 4.4BSD? via NetBSD

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1.326 python-pathlib2 2.3.4 r0

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1.327 unzip 6.0 r5

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There are currently two explicit copyrights on portions of UnZip
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MacBinaryIII coding code (for the MacOS port). These copyrights
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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There are no known patents on any of the code in UnZip. Unisys
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otherwise, but the issue has never been tested in court. Since this
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releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
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* 
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* 
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*
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* 
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* 
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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

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

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

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1.329 lsof 4.91 r0

1.330 libevdev 4.24-5.el8
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1.331 valgrind 3.15.0 r0

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

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* DNS resolver (dirmngr/dns.c)
dns.c - Recursive, Reentrant DNS Resolver.

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1.353 e2fsprogs 1.45.6 1.el8

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

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# 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
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Index: tdbsa/tdb.c

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

---

Open Source Used In Cat9K 17.7.1 4256
--- 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
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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5. A program that contains no derivative of any portion of the
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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
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If such an object file uses only numerical parameters, data
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    owner     = "The University of Delaware and Network Time Foundation";
    eaddr     = "http://bugs.ntp.org, bugs@ntp.org";
    type      = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;
version = `eval VERSION=`sed -e 's/\[\]/\]/ -e 's/\]/\]/' < ../sntp/m4/version.m4`
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "/" /* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi .
 */

// doc-sub = {
//     sub-name = version;
//     sub-text = '/VERSION#/<<version>>/g';
// }

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<li><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file option</li>
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<a href="mailto：%20pebbles.jpl.nasa.gov">Jeff Steinman</a> <a href="mailto：%20pebbles.jpl.nasa.gov">jss@pebbles.jpl.nasa.gov</a> Datum PTS clock
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* <li>GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)</li>
* <li>HP-UX port</li>
* <li>IP multicast/anycast support</li>
* <li>TRAK clock driver</li>
* <li>General codebase, Solaris issues</li>
* <li>Sandboxing (libseccomp) support</li>
* <li>TrueTime GPS driver, generic TrueTime clock driver</li>
* <li>corrected and validated HTML documents according to the HTML DTD</li>

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1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30] Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSUROUKA <tsurooka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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1.363 inflate-c c10p1

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/* $Source: /release/111/cvs/Xsys/czip/inflate.c,v $*/
/*------------------------------------------------------------------*/
/* inflate.c - unzip inflate */
/* * December 1994, Michael Beesley */
/* * All rights reserved. */
/* *------------------------------------------------------------------*/
/* $Log: inflate.c,v $*/
/* Revision 3.2.60.1 1996/03/18 19:11:09 gstovall */
/* Branch: California_branch */
/* Elvis has left the building. He headed out to California, and took the */
/* port ready changes with him.
/* inflate.c -- Not copyrighted 1992 by Mark Adler
   version c10p1, 10 January 1993 */

/* You can do whatever you like with this source file, though I would
 prefer that if you modify it and redistribute it that you include
 comments to that effect with your name and the date. Thank you.
 [The history has been moved to the file ChangeLog.] */

1.364 elfutils 0.176-5.el8

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Julian Seward, Cambridge, UK.
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1.370 libmspack 0.5alpha r0

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1.371 devmem2 1.0 r7
1.372 centos-release 8.1 1.1911.0.8.el8

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.
Contributors:
The Red Hat developers, without whom CentOS would look very different

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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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<td>2.2.2</td>
<td>2.2.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2.3</td>
<td>2.2.2</td>
<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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-----BEGIN PGP SIGNED MESSAGE-----

# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
#

########################################################
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
# dlitz@dlitz.net
# requested that this message be sent to:-
# crypt@bis.doc.gov
# enc@nsa.gov
# web_site@bis.doc.gov
# pycrypto@lists.dlitz.net
# PYTHON-CRYPTO@NIC.SURFNET.NL
# dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
# For information about the Stamper service see
# http://www.itconsult.co.uk/stamper.htm
########################################################
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>

---BEGIN PGP SIGNATURE---
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
iQEVA+gUBSLX1DYGvnbVvth+bAQEcuwf9EWnXLqSO5bPzR9K9QgsTPcsKbTIjKjPxr
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W/pqSSIPkwnbhLPHooltKNC6qKLAHXqMGJNhO8AkrYZOyJksb0RsA==
=3oIX
---END PGP SIGNATURE---

From dlitz@dlitz.net Sun Aug  2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================
Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=dlitz.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:from:date:message-id:subject:to:content-type:
:content-transfer-encoding:
bh=A0RHBf0TnribKS5qOHJ3YWbkJ+b0cuPeuoKAvpApWcc=;
b=gyTqKRhKIHdFKZCBW5rbMbMNVDq1PWLJbyC0EvxPska0Hr3HAR96MWQNBmPu/40AcVn55qIqTd534e9zUE6E6MWz09kqi/Qw0L/SLb0DIQeNQo/eHYqPmuVswitaYwNAyMJY9++76rPGqyDAlsfsvm7vQ3/bEmyVT0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=dlitz.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding:
b=jze7KSmtUGifVCXXaaxXM15NAtGdMQOtvZIfnNyG5y68xOdl2xsefjyyig3EfT6Nv6
Q3opUMst9Q6zjjZNd55w446kh2uBTNz4d3NWeEWHJnG3xciRQu/mXPFp8AzIP3CefL
1ornJLMe1Q2XyuZA73jем+SJttdHUcSD1Ubgl=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon, 03 Aug 2009 09:14:03 -0700 (PDT)
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public all your contributions to PyCrypto, with the following notice?
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Yes, that's fine. Good luck with the new release!

-p
--
20
Paul Swartz
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>> Hi Paul,

>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>
>That's great!

>> I understand that you have made contributions to PyCrypto, under nickname
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===================================================================

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

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
      by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
      for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
      envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
      by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
      for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
      by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F

Open Source Used In Cat9K 17.7.1 4575
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBPtnXfVAQLZjgP/ceG+JdZhVnPVJRIeJa6rY6+MHLDHl6agk
evKJnSIJAeVHlZnVeR5IXyvDUmAkZjU4SOV7MkhsKA9llet7PaD9SvYgn3ra5
gEIw12DqD0y5GEeXMrh74qrrb1PCCbCRmpaYN0+DZOhwHkeFBbwDRA3wItOrH7
SK4w9VBJfryY=3D
=3DQduY
-----END PGP SIGNATURE-----
On November 23, 2008, you wrote:

>Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
> PyCrypto, with the following notice?
>
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> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open source license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnAI8UnN8n93LBAQLp/gQAh7x8Av1mstc2kxEJDWn26PTAZxMz4B
FektbDOzkgc5580MGGeeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvf5zKyA
J/Mn/I+16ekJQ3juhIIPHMLAduOXM9Rtgwas/yR+D0aq0xOPK0Bx+/5t1Ld7BcZ
wrPEa9Oui9s=
zSY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back (though that would be nice).

--ank (www.amk.ca)

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Regards,
- Dwayne

--=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkk052IAcGkQHBG4d+eAS0XPPQCfCyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf=aBEW
-----END PGP SIGNATURE-----
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> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.
May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response. I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
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---
Regards,<br>
- Dwayne<br>

-- <br>Jeethu Rao

---
000e0cd209d0e5a3d40464a23054--
PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28
In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
    for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
    Received: from localhost (localhost [127.0.0.1])
        by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
    for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
    Received: (vmailmgr-postfix 16890 invoked by uid 1003);  5 May 2009 01:08:32 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
        envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
    Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
        by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
        for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
    Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
    Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
        (envelope-sender <joris@bontje.nl>)
        by 10.170.1.96 (qmail-ldap-1.03) with SMTP
        for < >; 5 May 2009 07:08:25 -0000
    Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
    id 9BE9815759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
    Received: from firewall66.interaccess.nl (firewall66.interaccess.nl [193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
        Tue, 05 May 2009 09:08:25 +0200
    Message-ID: <20090505090825.gsqq1hp7hg08wvovok@www.webmail.vuurwerk.nl>
    Date: Tue, 05 May 2009 09:08:25 +0200
    From: joris@bontje.nl
    To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
    Subject: Re: PyCrypto license clarification
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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Regards,
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> >=======================================================================

Open Source Used In Cat9K 17.7.1 4590
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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Excellent! Thank you!

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Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmmail 34697 invoked by uid 6001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;
b=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> > I am the new maintainer of the Python Cryptography Toolkit,
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> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.

> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

> Regards,

> Mark.

> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM

> Hi Mark,

> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.

> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)

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>> (though that would be nice).
>>
>> --amk
>>
>>
>> (www.amk.ca)
>>
>> For the next PyCrypto release, I would like to take steps
>> to move toward a
>> clearer licensing regime. I am asking as many
>> copyright holders as I can
>> find if I can release PyCrypto under something clearer and
>> more standard.
>> Below, I have quoted a public domain dedication that was
>> recommended in
>> _Intellectual Property and Open Source: A Practical Guide
>> to Protecting
>> Code_, by Van Lindberg. I have already contacted A.
>> M. Kuchling, Robey
>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
>> have all
>> approved the following dedication for their contributions.
>>
>> I understand that you have made contributions to
>> PyCrypto. May I, on your
>> behalf, dedicate to the public domain all your
>> contributions to PyCrypto,
>> with the following notice?
>>
>> The contents of this file are
For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, and he has approved the following dedication for his contributions.

May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
In case I haven't replied to this yet: Yes, this is fine with me.

robey

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Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCIQmYyVODvlIyLg0hgCI9LAbQ
SH8A0LJgqflI77ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

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

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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1.380 python3-pysocks 1.7.1 r0

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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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@example
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@example
```
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```
@end example

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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ASN.1 library for Python

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

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

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

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:
```
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```nn

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```nn

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
documentation(http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules

How to get pyasn1

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

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD license(http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub repo(https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from PyPI(https://pypi.org/project/pyasn1).

If something does not work as expected,
on open an issue(https://github.com/etingof/pyasn1/issues) at GitHub or
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ASN.1 library for Python

.. toctree:
   :maxdepth: 1
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting 'discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific
ASN.1 applications

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

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- Signaling standards for the public switched telephone network (SS7 family)
- Network management standards (SNMP, CMIP)
- Directory standards (X.500 family, LDAP)
- Public Key Infrastructure standards (X.509, etc.)
- PBX control (CSTA)
- IP-based Videoconferencing (H.323 family)
- Biometrics (BIP, CBEFF, ACBio)
- Intelligent transportation (SAE J2735)
- Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

----------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

----------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case

------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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-------

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Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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John R. Hauser
2018 January 20

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Key Dates
----------
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
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= Change Description / Commit Message / Patch Email =

Your change description should use the standard format for a commit message, and must include your “Signed-off-by” signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===
== Notes for sample patch email ==

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

== Definitions for sample patch email ==

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
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=====================================================  
= Change Description / Commit Message / Patch Email =  
=====================================================  

Your change description should use the standard format for a commit message, and must include your “Signed-off-by” signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

---
```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

---

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
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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.

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* Python-2.0: http://opensource.org/licenses/Python-2.0
* Zlib: http://opensource.org/licenses/Zlib

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=======================================================
= Change Description / Commit Message / Patch Email =
=======================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.

* `git format-patch` is one way to create this format

```--- Definitions for sample patch email

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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=TianoCore Contribution Agreement 1.1 =

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Contributions.txt: TianoCore Contribution Agreement 1.0

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Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the ‘---’ line.
* git format-patch is one way to create this format

==== Definitions for sample patch email ====

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* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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-- Wolfgang Denk
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RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {

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case 0xc8:
    DECODE_PRINTF("EAX\n");
    M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
    break;
    case 0xc9:
    DECODE_PRINTF("ECX\n");
    M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
    break;
    case 0xca:
    DECODE_PRINTF("EDX\n");
    M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
    break;
    case 0xcb:
    DECODE_PRINTF("EBX\n");
    M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
    break;
    case 0xcc:
    DECODE_PRINTF("ESP\n");
    M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
    break;
    case 0xcd:
    DECODE_PRINTF("EBP\n");
    M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
    break;
    case 0xce:
    DECODE_PRINTF("ESI\n");
    M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
    break;
    case 0xcf:
    DECODE_PRINTF("EDI\n");
    M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;
    }

TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
/*  0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/+/*  0xc8 */ x86emuOp2_bswap,
/+/*  0xc9 */ x86emuOp2_bswap,
/+/*  0xca */ x86emuOp2_bswap,
/+/*  0xcb */ x86emuOp2_bswap,
/+/*  0xcc */ x86emuOp2_bswap,
/+/*  0xcd */ x86emuOp2_bswap,
/+/*  0xce */ x86emuOp2_bswap,
/+/*  0xcf */ x86emuOp2_bswap,
/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
/+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
/+        push_long(imm);
/+    } else {
/+        push_word(imm);
/+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    if (cond) {
/+    if (cond) {
        M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
/+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
/* move them until CX is ZERO. */
count = M.x86.R_CX;
/* move them until (E)CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
+
    M.x86.R_ECX = 0;
    M.x86.mode &=- (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} 
while (count--) {

store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

/* REPE */
while (M.x86.R_CX != 0) {
/* dont care whether REPE or REPNE */
count = M.x86.R_CX;
/* move them until CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
+
    M.x86.R_ECX = 0;
    M.x86.mode &=- (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} 
while (count--) {

} 
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if (M.x86.intr & INTR_HALTED)
break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* REPE */
/* move them until CX is ZERO. */
while (M.x86.R_CX != 0) {

}
/* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  val1 = fetch_data_byte(M.x86.R_SI);
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(val1, val2);
  -  M.x86.R_CX -= 1;
  +  if (M.x86.mode & SYSMODE_32BIT_REP)
  +    M.x86.R_ECX -= 1;
  +  else
  +    M.x86.R_CX -= 1;
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
  if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
  if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
  +  if (M.x86.intr & INTR_HALTED)
  +    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
-    /* move them until (E)CX is ZERO. */
-    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val1 = fetch_data_long(M.x86.R_SI);
        val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
      }
@@ -2655,11 +2674,16 @@
      cmp_word((u16)val1, (u16)val2);
    }
  -  M.x86.R_CX -= 1;
  +  if (M.x86.mode & SYSMODE_32BIT_REP)
  +    M.x86.R_ECX -= 1;
  +  else
  +    M.x86.R_CX -= 1;
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
  if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
  if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
  +  if (M.x86.intr & INTR_HALTED)
  +    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
            M.x86.R_CX -= 1;
        }
        + if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        + else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        + if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &=- (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        +if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &=- (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_CX -= 1;
    }
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX += inc;
    else
        M.x86.R_CX += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
}
M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
-        /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;    /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+     break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
-            /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
- M.x86.R_CX := 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX := 1;
+ else
+     M.x86.R_CX := 1;
M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    -     /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
- M.x86.R_CX := 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX := 1;
+ else
+     M.x86.R_CX := 1;
M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;    /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    DECODE_PRINTF("RETt");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
    -RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    -RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
    -RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        !ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16) fetch_word_imm();
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4: /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
    case 5: /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+  JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
}  
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {  
 /* dont care whether REPE or REPNE */
-     /* in until CX is ZERO. */
-     u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+     /* in until (E)CX is ZERO. */
+     u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_CX : M.x86.R_CX);

-     while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
     }
     M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{ DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
void X86EMU_setMemBase(void *base, size_t size)
{
-M.mem_base = (int) base;
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@

/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for ”runtime” */
@@ -78,6 +76,8 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()    0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()       0
+#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEMTRACE()      0
#define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                              
+# define RETURN_TRACE(u,v,w,x,s)                           
if (DEBUG_TRACECALLREGS())\n  x86emu_dump_regs();
}
if (DEBUG_TRACECALL())
   printk("%04x:%04x: %s\n",u,v,n);
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+  x86emu_dump_regs();
+  if (DEBUG_TRACEJMP())
+     printk("%04x:%04x: RET %s %04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400
-//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
-//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR  0x20000000
#define SYSMODE_HALTED       0x40000000
- SYSMODE_SEGOVR_GS      | \
- SYSMODE_SEGOVR_SS      | \
- SYSMODE_PREFIX_DATA    | \
- SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_PREFIX_ADDR    | \
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH          0x1
#define INTR_ASYNCH         0x2
@ @ -250,7 +253,8 @@
SYMODE_SEG0VR_GS         \ 
SYMODE_SEG0VR_SS         \ 
SYMODE_PREFIX_DATA       \ 
- SYSMODE_PREFIX_ADDR    \ 
+ SYSMODE_PREFIX_ADDR    \ 
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH          0x1
#define INTR_ASYNCH         0x2
@ @ -274,9 +278,9 @@
*/
   u32 mode;
   volatile int intr; /* mask of pending interrupts */
-int     debug;
+    volatile int     debug;
#endif DEBUG
-int     check;
+    int     check;
   u16     saved_ip;
   u16     saved_cs;
   int     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
-#include <stdio.h>
+#include <stdio.h>
 #define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef __cplusplus
}{                       /* End of "C" linkage for C++    */
 #endif
-
#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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

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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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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.
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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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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Gocheck - A rich testing framework for Go

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1.418 libsepol 2.9 1.el8

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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.

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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1.419 bridgeutils 1.6 r0

1.420 libffi 3.1 22.el8

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1.421 xz 5.2.4-3.el8

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1.422 catalyst-4k-srcgalaxymathh 1
1.422.1 Available under license :
/*
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* ====================================================
*/
1.423 bash 4.2 r6

1.423.1 Available under license:

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

} Subject: ksh scripts
} From odin.ins.cwru.edu'chet Tue May  9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
   id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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1.424 lldpd 1.0.3 r0

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeFilter.py
tar/python/onep/interfaces/InterfaceBandwidthListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/vty/util.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/cdp/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/csdata.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/tools/release_vty_proxy.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/OnepInvalidSettingsException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/Vlan.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/SyslogListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/L2Ace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/exception/OnepRemoteProcedureException.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/router.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/crypto/crypto.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceStatistics.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceConfig.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceCreateDeleteFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/csdata.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceAddressChangeListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/NetworkInterface.py

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cshandler.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/FirewallService.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/policy/nat.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/pfr/pfr_test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfrconfig.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/pfr/pfroper.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/advancedrouting/config.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/container/cs.py

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TProcessPoolServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBase.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/Thrift.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTwisted.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TTTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TBinaryProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/TCompactProtocol.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSSLSocket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TCons.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/TNonblockingServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/THttcpClient.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TSocket.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/__init__.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/transport/TZlibTransport.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/server/THttpServer.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/thrift/protocol/__init__.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIREvent.py
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Found in path(s):
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/lib/ant/pyanttasks-1-3-3-jar/META-INF/maven/org.pyant.tasks/pyAntTasks/pom.xml
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/AddressChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceVrfFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceCreateDeleteEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceStatisticsFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceVlanChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceMTUEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceMtuFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceCreateDeleteFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceAddressChangeFilter_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVrfEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceVlanFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceVrfChangeEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/interfaces/InterfaceBandwidthEvent_Test.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/interfaces/InterfaceBandwidthFilter.py

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/*------------------------------------------------------------------
* README
*
* Cisco ONE-P Python SDK
*
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*------------------------------------------------------------------
*/

Introduction:
-------------

The APIs contained in these modules allow the developer to design controller applications that interface to compatible Cisco network elements. These applications will be able to configure the element and retrieve statistics.

WARNING:
It is suggested that the developer be very knowledgeable of the network element configuration before applying. You can bring down a production network with the wrong setup!
onePK Python API Reference:
--------------------------
The onePK Python API Reference is provided in HTML format and can be found in the docs directory. Open the index.html with a web browser.

Installing Modules
-------------------

Must have Python version 2.7.

From root of uncompressed directory type:

```python
python setup.py install
```

This will install the SDK modules in the standard directory.

If you wish to locate the modules into a custom directory:

```python
python setup.py install --prefix="<your custom directory>"
```

Alternatively, pip can be used to install the SDK.

```python
pip install <sdk_tar>
```

Pip can also be used to uninstall the sdk

```python
pip uninstall onep-python-sdk
```

This will install the SDK modules in :

```
<your custom directory>/lib/python2.7/site-packages/onep
```

Be sure that your custom directory is included in the PYTHONPATH.

Creating Application
----------------------

Must have a Cisco network device capable of communicating with ONE-P APIs. Network Element must also have onep configured with the socket transport and have the correct onep services activated. A network interface must be configured with a valid IP address and pingable.

First step to communicate with network element is to connect. See sample.py for a very basic example. You should be able to run:

```bash
./sample.py
```
Usage:

tools.py -a <element address or FQDN> [-t <transport_type>] \
    [-C <client cert file> -K <client private key file> \ 
    -R <root certificates file>]

-a <ip_addr or FQDN> Network element's IP Address or Fully Qualified Domain Name
-t <tls|tipc> Transport type. Default is TLS connection
-C <clientcert.pem> Client certificate file required TLS connection
    (default location ./clientcert.pem)
-K <clientkey.pem> Client private key file required for TLS connection
    (default location ./clientkey.pem)
-R <nerootca.pem> Root certificate file required for TLS connection
    (default location ./nerootca.pem)

The application will prompt the user to enter username and password that
are configured on the network element you are connecting to.

For more information on how to use TLS connection please refer to the
Getting Started Guide.

Happy Scripting!

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/tlspinning.py
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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/applmgmt/ApplicationConfigCliListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/dhcp/dhcp.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/applmgmt/ApplicationExecCliListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/mediatrace/mtrace.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/test/routing/PSSession.py
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Found in path(s):
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/CLIFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/OIRListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/element/ConnectionProperty.py

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Found in path(s):
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponseListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RouteOperation.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRouteOperation.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEventListener.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Node.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIB.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Scope.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponse.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Edge.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastNextHop.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRoute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/IdlConverter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/NodeConnector.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Route.py

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* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Node.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIB.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Scope.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingServiceStatusEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/UpdateRouteResponse.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Edge.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastNextHop.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRoute.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RoutingClass.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastRIBFilter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/TopologyEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/core/util/IdlConverter.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/NodeConnector.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/RIBRouteStateEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/Route.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/topology/Graph.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ReplayRouteEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/ARTRouteStateEvent.py
* /opt/cola/permits/1130449986_1615182707.44/0/python-tar/python/onep/routing/L3UnicastScope.py

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1.439 nettle 3.5.1 r0

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<!-- $Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

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<![if !--$Id: lwres_getrrsetbyname.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->]>

<refentry>
<refentryinfo>
<date>Oct 18, 2000</date>
</refentryinfo>
<refmeta>
<refentrytitle>lwres_getrrsetbyname</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
The following structures are used:

```c
struct rdatainfo {
    unsigned int rdi_length; /* length of data */
    unsigned char *rdi_data; /* record data */
};

struct rrsetinfo {
    unsigned int rri_flags; /* RRSET_VALIDATED... */
    unsigned int rri_rclass; /* class number */
    unsigned int rri_rdtype; /* RR type number */
    unsigned int rri_ttl; /* time to live */
    unsigned int rri_nrdatas; /* size of rdatas array */
    unsigned int rri_nsigs; /* size of sigs array */
    char *rri_name; /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};
```

The following structures are used:
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_getrrsetbyname()</function> gets a set of resource records associated with a 
<parameter>hostname</parameter>, 
<parameter>class</parameter>, 
and 
<parameter>type</parameter>. 

<parameter>hostname</parameter> is 
a pointer a to null-terminated string. The 
<parameter>flags</parameter> field is currently unused and must be zero. 
</para>
</para>
After a successful call to 
<function>lwres_getrrsetbyname()</function>, 

<parameter>*res</parameter> is a pointer to an 
<type>rrsetinfo</type> structure, containing a list of one or more 
<type>rdatainfo</type> structures containing resource records and potentially another list of 
<type>rdatainfo</type> structures containing SIG resource records 
associated with those records. 
The members 
<constant>rri_rdclass</constant> and 
<constant>rri_rdtype</constant>
are copied from the parameters. 
<constant>rri_ttl</constant> and 
<constant>rri_name</constant>
are properties of the obtained rrset. 
The resource records contained in 
<constant>rri_rdatas</constant> and 
<constant>rri_sigs</constant> are in uncompressed DNS wire format. 
Properties of the rdataset are represented in the 
<constant>rri_flags</constant>
If the RRSET_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

All of the information returned by lwres_getrsetbyname() is dynamically allocated: the rersetinfo and rdatainfo structures, and the canonical host name strings pointed to by the rsetinfo structure.

Memory allocated for the dynamically allocated structures created by a successful call to lwres_getrsetbyname() is released by lwres_freerrset().

Parameter rrset is a pointer to a struct rrset created by a call to lwres_getrsetbyname().

RETURN VALUES
lwres_getrsetbyname() returns zero on success, and one of the following error codes if an error occurred:

- ERRSET_NONAME: the name does not exist
- ERRSET_NODATA: the name exists, but does not have data of the desired type
<varlistentry><term><constant>ERRSET_NOMEMORY</constant></term><listitem><para>memory could not be allocated</para></listitem></varlistentry><varlistentry><term><constant>ERRSET_INVAL</constant></term><listitem><para>a parameter is invalid</para></listitem></varlistentry><varlistentry><term><constant>ERRSET_FAIL</constant></term><listitem><para>other failure</para></listitem></varlistentry><varlistentry><term></term><listitem><para></para></listitem></varlistentry></variablelist><para></para></refsect1><refsect1><title>SEE ALSO</title><para><citerefentry><refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum></citerefentry>.</para></refsect1></refentry>Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.docbook
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Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/res_update.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/nameser/ns_sign.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/nameser/ns_verify.c

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/list.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/eventlib.mdoc

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/tkey.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/tkey_249.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/afsdb_18.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/print.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/naprtr_35.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/in_1/px_26.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/xfrin.h

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The following six UNCOMMENTED lines are required.

Os OPERATING_SYSTEM [version/release]
Dt DOCUMENT_TITLE [section number] [volume]
The following requests should be uncommented and
used where appropriate. This next request is
for sections 2 and 3 function return values only.
This next request is for sections 1, 6, 7 & 8 only
.Sh ENVIRONMENT
.Sh EXAMPLES
This next request is for sections 1, 6, 7 & 8 only
(command return values (to shell) and
fprintf(stderr type diagnostics)
.Sh DIAGNOSTICS
The next request is for sections 2 and 3 error
and signal handling only.
.Sh STANDARDS
.Sh HISTORY
.Sh BUGS

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\"$Id: lwres_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp ~
\"

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irp_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h
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<!-- $Id: lwres_resutil.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>

<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_resutil</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
<refsect1>
<title>DESCRIPTION</title>

<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>.
</para>
</refsect1>
When the function returns, the address of the first byte of the encoded string is returned via <parameter>*c</parameter> and the length of that string is given by <parameter>*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.

<para>
<function>lwres_addr_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.

<para>
<function>lwres_getaddrsbyname()</function> and <function>lwres_getnamebyaddr()</function> use the <type>lwres_gnbaresponse_t</type> structure defined below:

<programlisting>
typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                   **aliases;
    lwres_uint16_t          realnamelen;
    lwres_uint16_t         *aliaslen;
    lwres_addrlist_t        addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gnbaresponse_t;
</programlisting_t;
</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
functions.
</para>

<para>
The lightweight resolver uses
<function>lwres_getaddrsbyname()</function> to perform forward lookups. Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation. 
<parameter>addrtypes</parameter> is a bitmask indicating which type of addresses are to be looked up. Current values for this bitmask are <type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and <type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the lookup are returned in <parameter>*structp</parameter>.
</para>

<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups. Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by
<parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or <type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given by <parameter>addr</parameter> and its length is <parameter>addrlen</parameter> bytes. The result of the function call is made available through <parameter>*structp</parameter>.
</para>

<refsect1>
<title>RETURN VALUES</title>
<para>
Successful calls to
<function>lwres_string_parse()</function>
and
<function>lwres_addr_parse()</function> return
<errorcode>LWRES_R_SUCCESS.</errorcode> Both functions return
<errorcode>LWRES_R_FAILURE</errorcode> if the buffer is corrupt or
<errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer has less space than expected for the components of the encoded string or address.
</para>

<para>
<function>lwres_getaddrsbyname()</function> returns
<errorcode>LWRES_R_SUCCESS</errorcode> on success and it returns
if the hostname could not be found.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned by a successful call to <function>lwres_getnamebyaddr()</function>.
</para>

Both <function>lwres_getaddrsbyname()</function> and <function>lwres_getnamebyaddr()</function> return <errorcode>LWRES_R_NOMEMORY</errorcode> when memory allocation requests fail and <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffers used for sending queries and receiving replies are too small.
</para>

<refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,

<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>.
</para>

</refsect1>
</refentry>

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/result.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/sockaddr.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/rcode.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rcode.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/result.c
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@(#)cdefs.h8.7 (Berkeley) 1/21/94
*/

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/opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refentryinfo>
<entryname>lwres_getaddrinfo</entryname>
<entrytitle>lwres_getaddrinfo</entrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refentryinfo>

<refnamediv>
<refname>lwres_getaddrinfo</refname>
<refname>lwres_freeaddrinfo</refname>
<refpurpose>socket address structure to host and service name</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;
</funcsynopsis>
<funcprototype>
<funcdef>
int lwres_getaddrinfo(const char *hostname, const char *servname, const struct addrinfo *hints, struct addrinfo **res);
</funcdef>
<funcprototype>
<funcdef>
void lwres_freeaddrinfo(struct addrinfo *ai);
</funcdef>
</funcprototype>
<funcprototype>
</funcprototype>
<funcdef>
int lwres_getaddrinfo(const char *hostname, const char *servname, const struct addrinfo *hints, struct addrinfo **res);
</funcdef>
<funcprototyp>
void lwres_freeaddrinfo(const struct addrinfo *ai);
</funcprototyp>
<funcprototyp>
</funcprototyp>
<para>
If the operating system does not provide a
<type>struct addrinfo</type>,
the following structure is used:
</para>

<programlisting>
struct addrinfo {
    int ai_flags;  /* AI_PASSIVE, AI_CANONNAME */
    int ai_family; /* PF_xxx */
    int ai_socktype; /* SOCK_xxx */
    int ai_protocol; /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
    size_t ai_addrlen; /* length of ai_addr */
    char *ai_canonname; /* canonical name for hostname */
};
</programlisting>
struct sockaddr *ai_addr;       /* binary address */
struct addrinfo *ai_next;       /* next structure in linked list */}

<programlisting>
</programlisting>

<para>
</para>

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_getaddrinfo()</function>
is used to get a list of IP addresses and port numbers for host
<parameter>hostname</parameter>
and service
<parameter>servname</parameter>.

The function is the lightweight resolver’s implementation of
<function>getaddrinfo()</function>
as defined in RFC2133.
<parameter>hostname</parameter>
and
<parameter>servname</parameter>
are pointers to null-terminated
strings or
<type>NULL</type>.

<parameter>hostname</parameter>
is either a host name or a numeric host address string: a dotted decimal
IPv4 address or an IPv6 address.
<parameter>servname</parameter>
is either a decimal port number or a service name as listed in
<filename>/etc/services</filename>.
</para>

<para>
<parameter>hints</parameter>
is an optional pointer to a
<type>struct addrinfo</type>. This structure can be used to provide hints concerning the type of socket
that the caller supports or wishes to use.
The caller can supply the following structure elements in
<parameter>*hints</parameter>:

<variablelist>
<varlistentry><term><constant>ai_family</constant></term>
</varlistentry>
<listitem>
<para>The protocol family that should be used.
When
<constant>ai_family</constant>
is set to
<type>PF_UNSPEC</type>,
it means the caller will accept any protocol family supported by the
operating system.
</para></listitem></varlistentry>

<varlistentry><term><constant>ai_socktype</constant></term>
<li></li></varlistentry>
<para>
denotes the type of socket —
<type>SOCK_STREAM</type>,
<type>SOCK_DGRAM</type>
or
<type>SOCK_RAW</type>
—that is wanted.
When
<constant>ai_socktype</constant>
is zero the caller will accept any socket type.
</para>
</listitem>

<varlistentry><term><constant>ai_protocol</constant></term>
<li></li></varlistentry>
<para>
indicates which transport protocol is wanted: IPPROTO_UDP or
IPPROTO_TCP.
If
<constant>ai_protocol</constant>
is zero the caller will accept any protocol.
</para>
</listitem>

<varlistentry><term><constant>ai_flags</constant></term>
<li></li></varlistentry>
<para>
Flag bits.
If the
<type>AI_CANONNAME</type>
is set, a successful call to
<function>lwres_getaddrinfo()</function>
will return a null-terminated string containing the canonical name
of the specified hostname in
<constant>ai_canonname</constant>
of the first
<type>addrinfo</type>
structure returned.
Setting the
bit indicates that the returned socket address structure is intended for used in a call to
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>.

In this case, if the hostname argument is a <type>NULL</type> pointer, then the IP address portion of the socket address structure will be set to <type>INADDR_ANY</type> for an IPv4 address or <type>IN6ADDR_ANY_INIT</type> for an IPv6 address.

When <constant>ai_flags</constant> does not set the <type>AI_PASSIVE</type> bit, the returned socket address structure will be ready for use in a call to <citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry> for a connection-oriented protocol or <citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>, <citerefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>, or <citerefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>

if a connectionless protocol was chosen. The IP address portion of the socket address structure will be set to the loopback address if <parameter>hostname</parameter> is a <type>NULL</type> pointer and
<type>AI_PASSIVE</type>
is not set in
<constant>ai_flags</constant>.
</para>
</para>
If
<constant>ai_flags</constant>
is set to
<type>AI_NUMERICHOST</type>
it indicates that
<parameter>hostname</parameter>
should be treated as a numeric string defining an IPv4 or IPv6 address
and no name resolution should be attempted.
</para>
</listitem>
</varlistentry>
</variablelist>
</para>
All other elements of the <type>struct addrinfo</type> passed
via <parameter>hints</parameter> must be zero.
</para>

<para>
A <parameter>hints</parameter> of <type>NULL</type> is treated as if
the caller provided a <type>struct addrinfo</type> initialized to zero
with <constant>ai_family</constant>set to
<constant>PF_UNSPEC</constant>.
</para>

<para>
After a successful call to
<function>lwres_getaddrinfo()</function>,
<parameter>*res</parameter>
is a pointer to a linked list of one or more
<type>addrinfo</type> structures.
Each
<type>struct addrinfo</type>
in this list cn be processed by following
the
<constant>ai_next</constant>
pointer, until a
<type>NULL</type>
pointer is encountered.
The three members
<constant>ai_family</constant>,

in each returned \texttt{addrinfo} structure contain the corresponding arguments for a call to \citerefentry \refentrytitle{socket} \manvolnum{2} \refentrytitle{gai_strerror} if an error occurs.

All of the information returned by \function{lwres_getaddrinfo} is dynamically allocated: the \texttt{addrinfo} structures, and the socket address structures and canonical host name strings pointed to by the \texttt{addrinfo} structures. Memory allocated for the dynamically allocated structures created by a successful call to \function{lwres_getaddrinfo} is released by \function{lwres_freeaddrinfo}. \parameter{ai} is a pointer to a \texttt{struct addrinfo} created by a call to \function{lwres_getaddrinfo}.
If both
<parameter>hostname</parameter>
and
<parameter.servname</parameter>
are
<type>NULL</type>
<function>lwres_getaddrinfo()</function>
returns
<errorcode>EAI_NONAME</errorcode>.

</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_gai_strerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>RFC2133</refentrytitle>
</citerefentry>,
<citerefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citerefentry>,
<citerefentry>
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/sshfp_44.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/isc/stat.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/ifiter_getifaddrs.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/stdlib.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/dnskey_48.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/rrsig_46.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/hash.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/portlist.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/dnskey_48.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/portlist.h
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<!-- $Id: lwres_getipnode.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

<refmeta>
<refentrytitle>lwres_getipnode</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

<refnamediv>
<refname>lwres_getipnodebyname</refname>
<refname>lwres_getipnodebyaddr</refname>
<refname>lwres_freehostent</refname>
<refpurpose>lightweight resolver nodename / address translation API</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/netdb.h&gt;</funcsynopsisinfo>
</funcprototype>

<funcdef>
struct hostent *
<function>lwres_getipnodebyname</function>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
<paramdef>int flags</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>

<funcdef>
struct hostent *
<function>lwres_getipnodebyaddr</function>

</refentry>
<paramdef>const void *src</paramdef>
<paramdef>size_t len</paramdef>
<paramdef>int af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>

<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>
<title>DESCRIPTION</title>

<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>

<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
<programlisting>
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>

<para>
The members of this structure are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
</varlistentry>
<listitem>
<para>
The official (canonical) name of the host.
</para>

A NULL-terminated array of alternate names (nicknames) for the host.

The type of address being returned - usually `PF_INET` or `PF_INET6`.

The length of the address in bytes.

A NULL-terminated array of network addresses for the host. Host addresses are returned in network byte order.

looks up addresses of protocol family

for the hostname
<variablelist>
  <varlistentry><term><constant>AI_V4MAPPED</constant></term>
  <listitem><para>This is used with an <parameter>af</parameter> of AF_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.</para></listitem>
  <varlistentry><term><constant>AI_ALL</constant></term>
  <listitem><para>This is used with an <parameter>af</parameter> of AF_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.</para></listitem>
  <varlistentry><term><constant>AI_ADDRCONFIG</constant></term>
  <listitem><para>Only return an IPv6 or IPv4 address if there is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.</para></listitem>
  <varlistentry><term><constant>AI_DEFAULT</constant></term>
  <listitem><para>This default sets the <constant>AI_V4MAPPED</constant> and <constant>AI_ADDRCONFIG</constant> flag bits.</para></listitem>
</variablelist>

<para><function>lwres_getipnodebyaddr()</function> performs a reverse lookup of address <parameter>src</parameter> which is <parameter>len</parameter> bytes long.
The protocol family is typically PF_INET or PF_INET6.

The function lwres_freehostent() releases all the memory associated with the hostent pointer. Any memory allocated for the h_name, h_addr_list, and h_aliases is freed, as is the memory for the hostent structure itself.

If an error occurs, the function lwres_getipnodebyname() and lwres_getipnodebyaddr() set *error_num to an appropriate error code and the function returns a NULL pointer.

The error codes and their meanings are defined in <lwres/netdb.h>:

- HOST_NOT_FOUND: No such host is known.
- NO_ADDRESS: No such address.
The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.

An unexpected failure occurred, and retrying the request is pointless.

translates these error codes to suitable error messages.

SEE ALSO

RFC2553,
Open Source Used In Cat9K 17.7.1  5526

<refentrytitle>lwres_getaddrinfo</refentrytitle><refentrytitle>lwres_getnameinfo</refentrytitle><refentrytitle>lwres_hstrerror</refentrytitle>. Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getipnode.docbook
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
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<refentryinfo>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refentryinfo>

<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>

<refsynopsisdiv>
<funcsynopsis>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
</funcprototype>
lwres_conf_t *
lwres_conf_get

lwres_context_t *ctx

lwres_conf_init()
creates an empty
lwres_conf_t structure for lightweight resolver context
ctx
lwres_conf_clear()
frees up all the internal memory used by that
lwres_conf_t structure in resolver context
ctx
lwres_conf_parse()
opens the file
filename and parses it to initialise the resolver context's
lwres_conf_t structure.
lwres_conf_print()
prints the
lwres_conf_t structure for resolver context
ctx
to the
FILE
fp.

RETURN VALUES
<para>
<function>lwres_conf_parse()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
if it successfully read and parsed
<parameter>filename</parameter>.
It returns
<errorcode>LWRES_R_FAILURE</errorcode>
if
<parameter>filename</parameter>
could not be opened or contained incorrect
resolver statements.
</para>

<para>
<function>lwres_conf_print()</function>
returns
<errorcode>LWRES_R_SUCCESS</errorcode>
unless an error occurred when converting the network addresses to a
numeric host address string.
If this happens, the function returns
<errorcode>LWRES_R_FAILURE</errorcode>.
</para>

<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</para>

<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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\"

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<refentry><refentryinfo><date>Jun 30, 2000</date></refentryinfo><refmeta><refentrytitle>lwres_gethostent</refentrytitle><manvolnum>3</manvolnum><refmiscinfo>BIND9</refmiscinfo></refmeta><refnamediv><refname>lwres_gethostbyname</refname><refname>lwres_gethostbyname2</refname><refname>lwres_gethostbyaddr</refname><refname>lwres_gethostent</refname><refname>lwres_sethostent</refname><refname>lwres_endhostent</refname><refname>lwres_gethostbyname_r</refname><refname>lwres_gethostbyaddr_r</refname><refname>lwres_gethostent_r</refname><refname>lwres_sethostent_r</refname><refname>lwres_endhostent_r</refname><refpurpose>lightweight resolver get network host entry</refpurpose></refnamediv><refsynopsisdiv><funcsynopsis><funcsynopsisinfo>'#include &lt;lwres/netdb.h&gt;'</funcsynopsisinfo></funcsynopsis><funcprototype><funcdef>struct hostent *
<function>lwres_gethostbyname</function></funcdef><paramdef>const char *name</paramdef></funcprototype><funcdef>struct hostent *
<function>lwres_gethostbyname2</function></funcdef><paramdef>const char *name</paramdef><paramdef>int af</paramdef></funcprototype><funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
These functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver. They are similar to the standard functions provided by most operating systems. They use a structure defined in 

```c
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```
The members of this structure are:

- **h_name**: The official (canonical) name of the host.
- **h_aliases**: A NULL-terminated array of alternate names (nicknames) for the host.
- **h_addrtype**: The type of address being returned — `PF_INET` or `PF_INET6`.
- **h_length**: The length of the address in bytes.
- **h_addr_list**: A `NULL` terminated array of network addresses for the host.

For backward compatibility with very old software, `h_addr` is the first address in `h_addr_list`. Host addresses are returned in network byte order.
<function>lwres_gethostent()</function>,
<function>lwres_sethostent()</function>,
<function>lwres_endhostent()</function>,
<function>lwres_gethostent_r()</function>,
<function>lwres_sethostent_r()</function>,
and
<function>lwres_endhostent_r()</function>
provide iteration over the known host entries on systems that provide such functionality through facilities like
<filename>/etc/hosts</filename>
or NIS. The lightweight resolver does not currently implement these functions; it only provides them as stub functions that always return failure.

<para>
<function>lwres_gethostbyname()</function> and
<function>lwres_gethostbyname2()</function> look up the hostname
<parameter>name</parameter>.
<function>lwres_gethostbyname()</function> always looks for an IPv4 address while <function>lwres_gethostbyname2()</function> looks for an address of protocol family <parameter>af</parameter>: either <type>PF_INET</type> or <type>PF_INET6</type> — IPv4 or IPv6 addresses respectively. Successful calls of the functions return a <type>struct hostent</type> for the name that was looked up. <type>NULL</type> is returned if the lookups by <function>lwres_gethostbyname()</function> or <function>lwres_gethostbyname2()</function> fail.

<para>
Reverse lookups of addresses are performed by
<function>lwres_gethostbyaddr()</function>.
<parameter>addr</parameter> is an address of length
<parameter>len</parameter> bytes and protocol family
<parameter>type</parameter> &mdash; <type>PF_INET</type> or <type>PF_INET6</type>.<function>lwres_gethostbyname_r()</function> is a thread-safe function for forward lookups. If an error occurs, an error code is returned in <parameter>*error</parameter>.<parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres_gethostbyname_r()</function>. <parameter>buf</parameter> is a buffer of length <parameter>len</parameter> bytes which is used to store the <constant>h_name</constant>, <constant>h_aliases</constant>, <constant>h_addr_list</constant> elements of the <type>struct hostent</type> returned in <parameter>resbuf</parameter>. 
Successful calls to `<function>lwres_gethostbyname_r()</function>` return `<parameter>resbuf</parameter>`, which is a pointer to the `<type>struct hostent</type>` it created.

`<function>lwres_gethostbyaddr_r()</function>` is a thread-safe function that performs a reverse lookup of address `<parameter>addr</parameter>` which is `<parameter>len</parameter>` bytes long and is of protocol family `<parameter>type</parameter>` &mdash; `<type>PF_INET</type>` or `<type>PF_INET6</type>`. If an error occurs, the error code is returned in `<parameter>*error</parameter>`. The other function parameters are identical to those in `<function>lwres_gethostbyname_r()</function>`. `<parameter>resbuf</parameter>` is a pointer to a `<type>struct hostent</type>` which is initialised by a successful call to `<function>lwres_gethostbyaddr_r()</function>`. `<parameter>buf</parameter>` is a buffer of length `<parameter>len</parameter>` bytes which is used to store the `<constant>h_name</constant>`, `<constant>h_aliases</constant>`, and `<constant>h_addr_list</constant>` elements of the `<type>struct hostent</type>` returned in `<parameter>resbuf</parameter>`. Successful calls to `<function>lwres_gethostbyaddr_r()</function>` return `<parameter>resbuf</parameter>`, which is a pointer to the `<function>struct hostent()</function>` it created.

### RETURN VALUES

The functions `<function>lwres_gethostbyname()</function>`, `<function>lwres_gethostbyname2()</function>`, `<function>lwres_gethostbyaddr()</function>`, and `<function>lwres_gethostent()</function>` return NULL to indicate an error. In this case the global variable `<type>lwres_h_errno</type>` will contain one of the following error codes defined in `<filename>&lt;lwres/netdb.h&gt;</filename>`:

```c
<variablelist>
  <varlistentry>
    <term><constant>HOST_NOT_FOUND</constant></term>
    <listitem>
      <para>The host or address was not found.
    </para>
  </varlistentry>
</variablelist>
```
<listitem>
<term><constant>TRY_AGAIN</constant></term>
</listitem>
<para>
A recoverable error occurred, e.g., a timeout.
Retrying the lookup may succeed.
</para>
</listitem>
</varlistentry>

<varlistentry>
<term><constant>NO_RECOVERY</constant></term>
</listitem>
<para>
A non-recoverable error occurred.
</para>
</listitem>
</varlistentry>

<varlistentry>
<term><constant>NO_DATA</constant></term>
</listitem>
<para>
The name exists, but has no address information
associated with it (or vice versa in the case
of a reverse lookup). The code NO_ADDRESS
is accepted as a synonym for NO_DATA for backwards
compatibility.
</para>
</listitem>
</varlistentry>

<para>
<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
translates these error codes to suitable error messages.
</para>

<para>
<function>lwres_gethostent()</function>
and
<function>lwres_gethostent_r()</function>
always return
<type>NULL</type>.
</para>

<para>
Successful calls to <function>lwres_gethostbyname_r()</function> and
<function>lwres_gethostbyaddr_r()</function> return
<parameter>resbuf</parameter>, a pointer to the <type>struct
hostent</type> that was initialised by these functions. They return
<para>if the lookups fail or if <parameter>buf</parameter> was too small to hold the list of addresses and names referenced by the <constant>h_name</constant>, <constant>h_aliases</constant>, and <constant>h_addr_list</constant> elements of the <type>struct hostent</type>. If <parameter>buf</parameter> was too small, both <function>lwres_gethostbyname_r()</function> and <function>lwres_gethostbyaddr_r()</function> set the global variable <type>errno</type> to <errorcode>ERANGE</errorcode>.
</para>

</refsect1>

<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>lwres_hstrerror</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>
</para>
</refsect1>

<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function> and
<function>lwres_endhostent()</function>
are not thread safe; they return pointers to static data and provide error codes through a global variable.
Thread-safe versions for name and address lookup are provided by
<function>lwres_gethostbyname_r()</function>, and
<function>lwres_gethostbyaddr_r()</function>
respectively.
</para>
<para>
The resolver daemon does not currently support any non-DNS name services such as
or

consequently the above functions don't, either.

*/
</refsect1>
</refentry>

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind9/getaddresses.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/strerror.c

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/getnameinfo.c
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"
" $Id: lwres_hstrerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
"

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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refentry>

<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>

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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
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<refentryinfo>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

<refnamediv>
<refsynopsisdiv>
<funcsynopsis>
#include &lt;lwres/lwres.h&gt;</funcsynopsis>

<funcdef>
lwres_result_t
function>lwres_context_create</function>

<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
</funcprototype>
</funcdef>

<funcdef>
lwres_result_t
function>lwres_context_destroy</function>

<paramdef>lwres_context_t **contextp</paramdef>
</funcprototype>
</funcdef>

<funcdef>
void
function>lwres_context_initserial</function>

<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
</funcdef>

<funcdef>
lwres_uint32_t
function>lwres_context_nextserial</function>

<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcdef>

<funcdef>
void
function>lwres_context_freemem</function>

<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
void lwres_context_allocmem(lwres_context_t *ctx, size_t len);

void *lwres_context_sendrecv(lwres_context_t *ctx, void *sendbase, int sendlen, void *recvbase, int recvlen, int *recvd_len);

**DESCRIPTION**

 lwres_context_create() creates a lwres_context_t structure for use in lightweight resolver operations. It holds a socket and other data needed for communicating with a resolver daemon. The new lwres_context_t is returned through a pointer to a lwres_context_t pointer. This pointer must initially be NULL, and is modified to point to the newly created lwres_context_t.

When the lightweight resolver needs to perform dynamic memory allocation, it will call malloc_function to allocate memory and
to free it. If
and
are NULL, memory is allocated using
and
are NULL, memory is allocated using
or vice versa.
is passed as the first parameter to the memory
allocation functions.
If
and
are NULL,
is unused and should be passed as NULL.
Once memory for the structure has been allocated,
it is initialized using
and returned via
and returned via
and returned via
and returned via
closing its socket.
<parameter>contextp</parameter> is a pointer to a pointer to the context that is to be destroyed. The pointer will be set to NULL when the context has been destroyed.

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests. This serial number is controlled using

<function>lwres_context_initserial()</function>
and
<function>lwres_context_nextserial()</function>.
<function>lwres_context_initserial()</function> sets the serial number for context
<parameter>*ctx</parameter>
to
<parameter>serial</parameter>.

<function>lwres_context_nextserial()</function> increments the serial number and returns the previous value.

Memory for a lightweight resolver context is allocated and freed using

<function>lwres_context_allocmem()</function>
and
<function>lwres_context_freemem()</function>.
These use whatever allocations were defined when the context was created with

<function>lwres_context_create()</function>
<function>lwres_context_allocmem()</function> allocates
<parameter>len</parameter> bytes of memory and if successful returns a pointer to the allocated storage.
<function>lwres_context_freemem()</function>
free
<parameter>len</parameter>
bytes of space starting at location
<parameter>mem</parameter>.

<function>lwres_context_sendrecv()</function> performs I/O for the context
<parameter>ctx</parameter>.

Data are read and written from the context's socket. It writes data from
<parameter>sendbase</parameter>.
— typically a lightweight resolver query packet — and waits for a reply which is copied to the receive buffer at
<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in
<parameter>*recvd_len</parameter>.

</para>
</refsect1>
<refsect1>
<title>RETURN VALUES</title>
<para>
<function>lwres_context_create()</function> returns
<errorcode>LWRES_R_NOMEMORY</errorcode> if memory for the
<type>struct lwres_context</type> could not be allocated,
<errorcode>LWRES_R_SUCCESS</errorcode> otherwise.
</para>
<para>
Successful calls to the memory allocator
<function>lwres_context_allocmem()</function> return a pointer to the start of the allocated space. It returns NULL if memory could not be allocated.
</para>
<para>
<errorcode>LWRES_R_SUCCESS</errorcode> is returned when
<function>lwres_context_sendrecv()</function> completes successfully.
<errorcode>LWRES_R_IOERROR</errorcode> is returned if an I/O error occurs and
<errorcode>LWRES_R_TIMEOUT</errorcode> is returned if
<function>lwres_context_sendrecv()</function> times out waiting for a response.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
</para>
</refsect1>
Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_context.docbook
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 */

/*
 * Get the response to 'request' by filling in 'message'.
 *
 * 'options' is passed to dns_message_parse(). See dns_message_parse()
 * for more details.
 *
 * Requires:
 *
 * 'request' is a valid request for which the caller has received the
 * completion event.
 *
 * The result code of the completion event was ISC_R_SUCCESS.
 *
 * Returns:
 *
 * ISC_R_SUCCESS
 *
 * Any result that dns_message_parse() can return.
 */

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/sec/dst/dst_api.c

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/keytable.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/timer.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/fsaccess.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/resource.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/include/lwres/ipv6.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/keyboard.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/include/isc/entropy.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/bindevt/bindevt.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/include/isc/ntpaths.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/unix/include/isc/keyboard.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/nothreads/mutex.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/include/isc/stdio.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/win32/unistd.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/stdio.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/resource.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/stdio.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/lwres_noop.c

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 */
/*
 * SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
 * 100% Public Domain
* Test Vectors (from FIPS PUB 180-1)
* "abc"
* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abcdefdefghghighijhijkjkjklmklmlmonnopnopq"
* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/

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 */
$Id: lwres_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
/*

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 */

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Os OPERATING_SYSTEM [version/release]
Dt DOCUMENT_TITLE [section number] [volume]
This next request is for sections 1, 6, 7 & 8 only
.Sh ENVIRONMENT
.Sh FILES
.Sh EXAMPLES
This next request is for sections 1, 6, 7 & 8 only
command return values (to shell) and
fprintf(stderr type diagnostics)
.Sh DIAGNOSTICS
The next request is for sections 2 and 3 error
and signal handling only.
.Sh STANDARDS
.Sh HISTORY
.Sh BUGS

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# $Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp $

# Search for machine-generated header files in the build tree,
# and for normal headers in the source tree (${top_srcdir}).
# We only need to look in OS-specific subdirectories for the
# latter case, because there are no machine-generated OS-specific
# headers.

ISC_INCLUDES = @BIND9_ISC_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/isc \
   -I${top_srcdir}/lib/isc/include \ 
   -I${top_srcdir}/lib/isc/unix/include \
   -I${top_srcdir}/lib/isc/@ISC_THREAD_DIR@/include

ISCCFG_INCLUDES = @BIND9_ISCCFG_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/isccfg/include

DNS_INCLUDES = @BIND9_DNS_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/dns/include \ 
   -I${top_srcdir}/lib/dns/sec/dst/include

OMAPI_INCLUDES = @BIND9_OMAPI_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/omapi/include

LWRES_INCLUDES = @BIND9_LWRES_BUILDINCLUDE@ \
   -I${top_srcdir}/lib/lwres/include

Open Source Used In Cat9K 17.7.1 5564
TEST_INCLUDES = \
-I${top_srcdir}/lib/tests/include

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/parseint.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/syslog.c
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MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase = 16

MessageId=0x1
Severity=Error
Facility=Application
SymbolicName=BIND_ERR_MSG
Language=English
%1

MessageId=0x2
Severity=Warning
Facility=Application
SymbolicName=BIND_WARN_MSG
Language=English
%1

MessageId=0x3
Severity=Informational
Facility=Application
SymbolicName=BIND_INFO_MSG
Language=English
%1

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Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/win32/lwconfig.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/ds_43.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/win32os.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/order.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/isc/netscope.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/gai_strerror.3
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/mx_15.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/task.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/base64.c

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/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp $ */

#define LWRES_PLATFORM_H

/*
*****
***** Platform-dependent defines.
*****/

/*
*** Network.
*/
/**
  * Define if this system needs the <netinet/in6.h> header file for IPv6.
  */
#define LWRES_PLATFORM_NEEDINETINET6H@

/**
  * Define if this system needs the <netinet6/in6.h> header file for IPv6.
  */
#define LWRES_PLATFORM_NEEDNETINET6IN6H@

/**
  * If sockaddr on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
  * will be defined.
  */
#define LWRES_PLATFORM_HAVESALEN@

/**
  * If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
  * will be defined.
  */
#define LWRES_PLATFORM_HAVEIPV6@

/**
  * If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
  * be defined.
  */
#define LWRES_PLATFORM_NEEDIN6ADDRANY@

/**
  * If this system is missing in6addr_loopback, LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will
  * be defined.
  */
#define LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/**
  * If this system has in_addr6, rather than in6_addr, LWRES_PLATFORM_HAVEINADDR6 will
  * be defined.
  */
#define LWRES_PLATFORM_HAVEINADDR6@

/**
  * Defined if unistd.h does not cause fd_set to be delared.
  */
#define LWRES_PLATFORM_NEEDSYSSELECTH@
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

/*
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@LWRES_PLATFORM_NEEDSPRINTF@

#endif /* LWRES_PLATFORM_H */

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/

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 * SHA-1 in C
 * By Steve Reid <steve@edmweb.com>
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 */

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/inet/inet_makeaddr.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/inet/inet_netof.c

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* eventlib definitions specific to binos
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* January 2007, Vikram Visweswaraiah
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This next request is for sections 1, 6, 7 & 8 only
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.Sh EXAMPLES
This next request is for sections 1, 6, 7 & 8 only
     (command return values (to shell) and fprintf/stderr type diagnostics)
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* msg_eventlib.c - Error messages for evlib
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/win32/dir.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/isc/unix/include/isc/int.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/isc/include/isc/bitstring.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/isc/include/isc/iterator.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/dns/include/dns/rdata/list.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/dns/include/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/dns/include/dns/rdata/in_1/a6_38.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/event.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/buffer.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/null_10.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/hinfo_13.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/include/isc/lex.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/txt_16.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/entropy.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/entropy.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/lcl_ho.c

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$Id: lwres_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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<!-- $Id: lwres_gabn.docbook,v 1.1 2004/11/03 01:39:06 abstine Exp -->

<refentry>
<refentryinfo>
<date>Jun 30, 2000</date>
</refentryinfo>
</refentry>
lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

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lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t

lwres_result_t
These are low-level routines for creating and parsing lightweight resolver name-to-address lookup request and response messages.

There are four main functions for the getaddrbyname opcode. One render function converts a getaddrbyname request structure to the lightweight resolver's canonical format. It is complemented by a parse function that converts a packet in this canonical format to a getaddrbyname request structure. Another render function converts the getaddrbyname response structure to the canonical format. This is complemented by a parse function which converts a packet in canonical format to a getaddrbyname response structure.

These structures are defined in `lwres.h`. They are shown below.

```c
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U
```
typedef struct lwres_addr lwres_addr_t;
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;

typedef struct {
    lwres_uint32_t     flags;
    lwres_uint32_t     addrtypes;
    lwres_uint16_t     namelen;
    char              *name;
} lwres_gabnrequest_t;

typedef struct {
    lwres_uint32_t          flags;
    lwres_uint16_t          naliases;
    lwres_uint16_t          naddrs;
    char                   *realname;
    char                  **aliases;
    lwres_uint16_t          reallnamelen;
    lwres_uint16_t            *aliaslen;
    lwres_addrlist_t        addrs;
    void                   *base;
    size_t                  baselen;
} lwres_gabnresponse_t;

The contents of
<parameter>*req</parameter>
are then appended to the buffer in canonical format.
<function>lwres_gabnresponse_render()</function>
performs the same task, except it converts a getaddrbyname response structure
<type>lwres_gabnresponse_t</type>
to the lightweight resolver's canonical format.
</para>

<para>
<function>lwres_gabnrequest_parse()</function>
uses context
to convert the contents of packet

to a

\texttt{lwres\_gabnrequest\_t}

structure.

Buffer

\texttt{b}

provides space to be used for storing this structure.

When the function succeeds, the resulting

\texttt{lwres\_gabnrequest\_t}

is made available through

\texttt{*structp}.

\texttt{lwres\_gabnresponse\_parse()} offers the same semantics as

\texttt{lwres\_gabnrequest\_parse()} except it yields a

\texttt{lwres\_gabnresponse\_t}

structure.

\texttt{lwres\_gabnresponse\_free()} and

\texttt{lwres\_gabnrequest\_free()} release the memory in resolver context

\texttt{ctx}\n
that was allocated to the

\texttt{lwres\_gabnresponse\_t}\n
or

\texttt{lwres\_gabnrequest\_t}\n
structures referenced via

\texttt{structp}.

Any memory associated with ancillary buffers and strings for those
structures is also discarded.

The getaddbrname opcode functions

\texttt{lwres\_gabnrequest\_render()},

\texttt{lwres\_gabnresponse\_render()},

\texttt{lwres\_gabnrequest\_parse()} and

\texttt{lwres\_gabnresponse\_parse()} all return
<errorcode>LWRES_R_SUCCESS</errorcode> on success. They return <errorcode>LWRES_R_NOMEMORY</errorcode> if memory allocation fails. <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> is returned if the available space in the buffer <parameter>b</parameter> is too small to accommodate the packet header or the <type>lwres_gabnrequest_t</type> and <type>lwres_gabnresponse_t</type> structures. <function>lwres_gabnrequest_parse()</function> and <function>lwres_gabnresponse_parse()</function> will return <errorcode>LWRES_R_UNEXPECTEDEND</errorcode> if the buffer is not empty after decoding the received packet. These functions will return <errorcode>LWRES_R_FAILURE</errorcode> if <structfield>pktflags</structfield> in the packet header structure <type>lwres_lwpacket_t</type> indicate that the packet is not a response to an earlier query.

*SEE ALSO*

<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/lwres/man/lwres_gabn.docbook

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* This is the header file for the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
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* with every copy.
* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*
* Changed so as no longer to depend on Colin Plumb’s `usual.h`
* header definitions; now uses stuff from dpkg's config.h
* - Ian Jackson <ijackson@nyx.cs.du.edu>.
* Still in the public domain.
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#ifndef ISC_PLATFORM_H
#define ISC_PLATFORM_H 1

/*****
***** Platform-dependent defines.
*****/

/***
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
/*
 * Define if this system needs the <netinet/in6.h> header file included
 * to support in6_pkitinfo (pretty much only BSD/OS).
 */
@ISC_PLATFORM_NEEDINET6IN6H@

/*
 * If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
 * will be defined.
 */
@ISC_PLATFORM_HAVESALEN@

/*
 * If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
 * will be defined.
 */
@ISC_PLATFORM_HAVEIPV6@

/*
 * If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
 * be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
 * If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
 * will be defined.
 */
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
 * If this system has in6_pkitinfo, ISC_PLATFORM_HAVEIN6PKTINFO will be
 * defined.
 */
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
 * If this system has in6_addr, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
 * will be defined.
 */
@ISC_PLATFORM_HAVEINADDR6@

/*
 * If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
 */
@ISC_PLATFORM_HAVESCOPEID@
/*@isc_platform_needntop@

*/

@isc_platform_needntop@

/*@isc_platform_needpton@

*/

@isc_platform_needpton@

/*@isc_platform_needatont@

*/

@isc_platform_needatont@

/*@isc_platform_needportt@

*/

@isc_platform_needportt@

/*@isc_platform_needstrsep@

*/

@isc_platform_needstrsep@

/*@isc_platform_needstrlcpy@

*/

@isc_platform_needstrlcpy@

/*@isc_platform_needstrlcat@

*/

@isc_platform_needstrlcat@

/*@isc_platform_msghdrflavor@

*/

@isc_platform_msghdrflavor@

/*@isc_platform_bracepthreadonceinit@

*/

@isc_platform_bracepthreadonceinit@
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_* macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/***
*** Printing.
***/

/*
* If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
* will be defined.
*/
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@ISC_PLATFORM_NEEDSPRINTF@

/*
* The printf format string modifier to use with isc_uint64_t values.
*/
@ISC_PLATFORM_QUADFORMAT@

/*
* Defined if we are using threads.
*/
@ISC_PLATFORM_USETHREADS@

/*
* Defined if unistd.h does not cause fd_set to be delared.
*/
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
* Type used for resource limits.
*/
@ISC_PLATFORM_RLIMITTYPE@

/*
* Define if your compiler supports "long long int".
*/
@ISC_PLATFORM_HAVELONGLONG@

/*
* Define if the system has struct lifconf which is a extended struct ifconf
* for IPv6.
Open Source Used In Cat9K 17.7.1 5625

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#endif
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#endif
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif

#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */

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/*
 * eventlib.em
 *
 * Eventlib error message compiler input file
 *
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 */
/* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}

errmsg HISTSUMM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
    arg {
        "int" dispatch_time "event dispatch time";
        "int" elapsed_time "event elapsed time";
        "int" hog_detected "event hog detected";
        "int" set_count "event set count since dispatch"
    }
    explanation
        "Eventlib historical summary for detected hog.";

    action
        "This event summary is part of a CPUHOG or TIMEHOG error, 
        "providing diagnostic details useful to engineering. "
        "Save this summary message along with the HOG error. ";

    tac_details
        "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

    format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
    }
}
"char *" any_string "element callback render buffer";
" Eventlib historical element for detected hog."

"This event element is part of a CPUHOG or TIMEHOG error, "
" providing diagnostic details useful to engineering. "
" Save all element messages along with the HOG error. ";

" Eventlib historical element for detected hog."

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" $Id: lwres_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp $

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_connects.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/isc/eventlib.c

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/irs_p.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/irs/getpwent.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
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"
" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp$
"
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 * 
 * BINOS specific changes to associate memcluster with an evctx
 * 
 * March 2014, Aswin Kuppusami
 */

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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/rdata/generic/sig_24.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/zone.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/generic/key_25.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/view.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/adh.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/masterdump.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/include/unix/net.h
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/xfrin.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isccfg/log.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/ntgroups.h
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/strerror.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/win32/include/isc/win32/DLLMain.c
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* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/isc/unix/strerror.c
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/dns/include/dns/zonekey.h
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AC_REVISION($Revision: 1.1 $)
AC_INIT(resolv/herror.c)
AC_PREREQ(2.13)

AC_CONFIG_HEADER(config.h)

AC_CANONICAL_HOST

AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_INSTALL

AC_SUBST(STD_CINCLUDES)
AC_SUBST(STD_CDEFINES)
AC_SUBST(STD_CWARNINGS)
AC_SUBST(CCOPT)

AC_PATH_PROG(AR, ar)
ARFLAGS="cruv"
AC_SUBST(AR)
AC_SUBST(ARFLAGS)

# The POSIX ln(1) program. Non-POSIX systems may substitute
# "copy" or something.
LN=ln
AC_SUBST(LN)

case "$AR" in
"")
AC_MSG_ERROR([ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.])
;;
esac

# # Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

# # Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
# if test "XSETAGS" != "X"; then
AC_MSG_CHECKING(for Exuberant Ctags etags)
if SETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
AC_MSG_RESULT(yes)
ETAGS="$ETAGS -L"
else
AC_MSG_RESULT(no)
fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL, perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  '${prefix}/include')
  includedir='${prefix}/bind/include'
  ;;
esac
  case "$libdir" in
    '${prefix}/lib')
    libdir='${prefix}/bind/lib'
    ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
  case "$INSTALL" in
    /*)
    ;;
    *)
      # Not all systems have dirname.
      #
      changequote([, ])
      ac_dir="""\$INSTALL \| sed 's/%[^/]*/$%""
      changequote([, ])

      ac_prog="""\$INSTALL \| sed 's/%[^/]*/$%""

test "$ac_dir" = "$ac_prog" && ac_dir=.
test -d "$ac_dir" && ac_dir="`(cd \"$ac_dir\" && pwd)`"
INSTALL="$ac_dir/$ac_prog"
;;
esac
#  
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#  
# However, if the user sets $CC to be something, let that override
# our change.
#  
# if test "X$CC" = "X" ; then
case "$host" in
  *-dec-osf*)
    CC="cc"
    ;;
  *-solaris*)
    # Use Sun's cc if it is available, but watch
    # out for /usr/ucb/cc; it will never be the right
    # compiler to use.
    #
    # If setting CC here fails, the AC_PROG_CC done
    # below might still find gcc.
    IFS="$[IFS=]"; ac_save_ifs="$IFS"; IFS=":"
    for ac_dir in $PATH; do
      test -z "$ac_dir" && ac_dir=.
      case "$ac_dir" in
        /usr/ucb)
        # exclude
        ;;
        *)
      esac
      if test -f "$ac_dir/cc"; then
        CC="$ac_dir/cc"
        break
      fi
      ;;
esac
    done
    IFS="$ac_save_ifs"
  ;;
  *-hp-hpux*)
    CC="cc"
  ;;
  mips-sgi-irix*)
    CC="cc"
  ;;
  esac
  ;;
::
esac
fi

AC_PROG_CC

AC_HEADER_STDC

AC_CHECK_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/socket.h sys/select.h sys/timers.h)

AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T
AC_HEADER_TIME
#
# check if we need to #include sys/select.h explicitly
#
case $ac_cv_header_unistd_h in
  yes)
    AC_MSG_CHECKING(if unistd.h defines fd_set)
    AC_TRY_COMPILE([
      #include <unistd.h>],
      [fd_set read_set; return (0);],
      [AC_MSG_RESULT(yes)
       ISC_PLATFORM_NEEDSYSSELECTH="#undef ISC_PLATFORM_NEEDSYSSELECTH"
      ],
      [AC_MSG_RESULT(no)
       case ac_cv_header_sys_select_h in
       yes)
         ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
       ;;
       no)
       AC_MSG_ERROR([need either unistd.h or sys/select.h])
     ;;
esac
  ])::
 ;;
no)
    AC_MSG_ERROR([need either working unistd.h or sys/select.h])
  ;;
esac
]
;;
no)
    AC_MSG_ERROR([need either unistd.h or sys/select.h])
  ;;
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

# Find the machine's endian flavor.
# AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-grBuild ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
  yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
       WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}";;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pwBuild ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
  yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
       WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nisBuild ....],
want_irs_nis="$withval", want_irs_nis="no")
case "$want_irs_nis" in
  yes)
    WANT_IRS_NIS="#define WANT_IRS_NIS 1"
    WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}";
  *)
    WANT_IRS_NIS="#undef WANT_IRS_NIS" WANT_IRS_NIS_OBJS="";;
esac
case "$want_irs_pw" in
  yes)
    WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";
  *)
    WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
  yes)
    WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";
  *)
    WANT_IRS_NISPW_OBJS="";;
esac
;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJ=""
WANT_IRS_NISGR_OBJ=""
WANT_IRS_NISPW_OBJ="";
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJ)
AC_SUBST(WANT_IRS_NISGR_OBJ)
AC_SUBST(WANT_IRS_NISPW_OBJ)
AC_TRY_RUN(
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJ="$\{WANT_IRS_DBPW_OBJ\}"
.
WANT_IRS_DBPW_OBJ=""
.
WANT_IRS_DBPW_OBJ=""
)
AC_SUBST(WANT_IRS_DBPW_OBJ)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="\$withval", use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
  *-openbsd*)
devrandom=/dev/srandom
  ;;
*)
devrandom=/dev/random
  ;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,}
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$devrandom"),

;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])

;; *
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")

;; esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[  --disable-threads	disable multithreading])
case "$enable_threads" in
  yes|''
AC_MSG_RESULT(yes)
use_threads=true

;;
no)
AC_MSG_RESULT(no)
use_threads=false

;; *
AC_MSG_ERROR([--enable-threads takes yes or no])

;; esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
  case "$host" in
    *-netbsd*)
  # NetBSD has multiple pthreads implementations. The
  # recommended one to use is "unproven-pthreads". The
  # older "mit-pthreads" may also work on some NetBSD
  # versions. The PTL2 thread library does not
  # currently work with bind9, but can be chosen with
  # the --with-rtl2 option for those who wish to
  # experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
   [ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
   use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
AC_MSG_RESULT(PTL2)
AC_MSG_WARN([linking with PTL2 is highly experimental and not expected to work])
CC=ptlgcc
else
if test ! -d $LOCALBASE/pthreads
then
AC_MSG_RESULT(none)
use_threads=false
fi
fi

if $use_threads
then
AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
pkg="$LOCALBASE/pthreads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lpthread -lm -lgcc -lpthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
"
*]
AC_CHECK_LIB(pthread, pthread_create,)
AC_CHECK_LIB(pthread, __pthread_create,)
AC_CHECK_LIB(pthread, __pthread_create_system,)
AC_CHECK_LIB(c_r, pthread_create,)
AC_CHECK_LIB(c, pthread_create,)
use_threads=false)
))
"
;
esac
fi

if $use_threads
then
#

# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
    AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, __Psigwait,
    AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
    AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;
#
# BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*-bsd3.0[^-bsd4.0*)
AC_DEFINE(NEED_PTHREAD_INIT)
;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
AC_DEFINE(HAVE_LINUXTHREADS)
;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
AC_CHECK_FUNC(pthread_setconcurrency,
    AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
AC_DEFINE(POSIX_GETPWUID_R)
AC_DEFINE(POSIX_GETPWNAM_R)
AC_DEFINE(POSIX_GETGRGID_R)
AC_DEFINE(POSIX_GETGRNAM_R)
;;
*hpux11*)
AC_DEFINE(_PTHREADS_DRAFT4)
;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf, AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
  *-freebsd*)
    CC="$CC -pthread"
    CCOPT="$CCOPT -pthread"
    STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
  ;;
  *-openbsd*)
    CC="$CC -pthread"
    CCOPT="$CCOPT -pthread"
  ;;
  *-solaris*)
    LIBS="$LIBS -lthread"
  ;;
  *-ibm-aix*)
    STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
  ;;
esac
else
case $host in
  *-dec-osf*)
    CC="$CC -pthread"
    CCOPT="$CCOPT -pthread"
  ;;
  *-solaris*)
    CC="$CC -mt"
    CCOPT="$CCOPT -mt"
  ;;
  *-ibm-aix*)

STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
"
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
"
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"

WANT_IRS_THREADSGR_OBJS="$WANT_IRS_THREADSGR_OBJS"
WANT_IRS_THREADSPW_OBJS="$WANT_IRS_THREADSPW_OBJS"
WANT_IRS_THREADS_OBJS="$WANT_IRS_THREADS_OBJS"

thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""

thread_dir=nothreads
fi

AC_CHECK_FUNC(strlcat, AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,

[USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],
[USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])
AC_SUBST(USE_IFNAMELINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,

[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="$DAEMON_OBJS" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

# Indicate what the final decision was regarding threads.
#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
AC_MSG_RESULT(yes)
else
AC_MSG_RESULT(no)
fi

# End of pthreads stuff.
#

# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "$GCC" = "yes"; then
STD_CWARNINGS="SSTD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
case $host in
  *-dec-osf*)
    CC="$CC -std"
    CCOPT="$CCOPT -std"
    MKDEPCC="$CC"
    ;;
  *-hp-hpux*)
  esac
  # Resolve $GCC.
  if test "$GCC" = "yes"; then
    STD_CWARNINGS="SSTD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
  else
    if test "$GCC" = "true"; then
      STD_CWARNINGS="-W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
    fi
  fi
if [ "$GCC" != "false" ]; then
  MKDEPCC="$GCC"
fi


# The version of the C compiler that constantly warns about
# 'const' as well as alignment issues is unfortunately not
# able to be discerned via the version of the operating
# system, nor does `cc` have a version flag.

```bash
CC="$CC -Ae -z"

# Turn off the pointlessly noisy warnings.
STD_CWARNINGS="+w1
+W 474,530"

# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.

# IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"

# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.

# case "$host in
*linux*]
```
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
::
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,
#  AC_CHECK_LIB(socket, socket)
#  AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
  mips-sgi-irix*)
    AC_CHECK_LIB(d4r, gethostbyname_r)
    AC_CHECK_LIB(socket, socket)
    AC_CHECK_LIB(nsl, inet_ntoa)
    :
  *)
A
purify_path="$use_purify"

case "$use_purify" in
  no)
    AC_MSG_RESULT(no)
    PURIFY=""
    ;;
  *)
if test -f $purify_path || test $purify_path = purify; then
    AC_MSG_RESULT($purify_path)
    PURIFYFLAGS="`echo $PURIFYOPTIONS`"
    PURIFY="$purify_path $PURIFYFLAGS"
else
    AC_MSG_ERROR([$purify_path not found. Please choose the proper path with the following command: configure --with-purify=PATH])
fi
;;
esac

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [   --with-libtool	use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")

case $use_libtool in
  yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ;;
  *)
    O=o
    A=a
	)
LIBTOOL=
AC_SUBST(LIBTOOL)
LIBTOOL_MKDEP_SED=
LIBTOOL_MODE_COMPILE=
LIBTOOL_MODE_INSTALL=
LIBTOOL_MODE_LINK=
;
esac
#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a
AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#
#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[  --enable-ipv6		use IPv6 [default=autodetect]
])
case "$enable_ipv6" in
  yes|''|autodetect)
    AC_DEFINE(WANT_IPV6)
  ;;
  no)
    ;;
    esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>,
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
   found_ipv6=yes],
[AC_MSG_RESULT(no)
   found_ipv6=no])

#
# See whether IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,
[  --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],
use_kame="$withval", use_kame="no")

case "$use_kame" in
  no)
    ..
    yes)
    kame_path=/usr/local/v6
    ..
    *)
    kame_path="$use_kame"
    ..
esac

case "$use_kame" in
  no)
    AC_MSG_RESULT(no)
    ..
  *)
    if test -f $kame_path/lib/libinet6.a; then
      AC_MSG_RESULT($kame_path/lib/libinet6.a)
      LIBS="-L$kame_path/lib -linet6 $LIBS"
    else
      AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.

Please choose the proper path with the following command:

    configure --with-kame=PATH

) fi

esac
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.
# Including it on Kame-using platforms is very bad, though, because
# Kame uses #error against direct inclusion. So include it on only
# the platform that is otherwise broken without it -- BSD/OS 4.0 through 4.1.
# This is done before the in6_pktinfo check because that's what
# netinet6/in6.h is needed for.
#
changequote({, })
case "$host" in
  *-bsdi4.[01]*)
    ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"
    isc_netinet6in6_hack="#include <netinet6/in6.h>"
    ::
  *)
    ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
    isc_netinet6in6_hack=""
    ::
esac
changequote([], )

#
# This is similar to the netinet6/in6.h issue.
#
changequote([, ])
case "$host" in
  *-UnixWare*)
    ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
    isc_netinetin6_hack="#include <netinet/in6.h>"
    ::
  *)
    ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
    isc_netinetin6_hack=""
    ::
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
changequote([, ])
case "$found_ipv6" in
  yes)
    HAS_INET6_STRUCTS="#define HAS_INET6_STRUCTS 1"
    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE([
      #include <sys/types.h>
      #include <sys/socket.h>
#include <netinet/in.h>
Sisc_netinetin6_hack
Sisc_netinet6in6_hack

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
Sisc_netinetin6_hack
Sisc_netinet6in6_hack
Sisc_in_addr6_hack
]
, [struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
Sisc_netinetin6_hack
]
, [struct sockaddr_in6 xyzzy; xyzzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
Sisc_netinetin6_hack
]
$isc_netinet6in6_hack

[struct in6_pktinfo xyzzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"]

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"]
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
inet_ntop(0, 0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"]).

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
inet_pton(0, 0, 0); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"]).

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON 1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
struct in_addr in; inet_aton(0, &in); return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"]).

[AC_MSG_RESULT(no)
ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])
AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
  *-dec-osf*)
# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([#
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
  *-bsd[2345]*)have_minimum_ifreq=yes;;
  *-darwin*)have_minimum_ifreq=yes;;
  *-freebsd*)have_minimum_ifreq=yes;;
  *-lynvos*)have_minimum_ifreq=yes;;
  *-netbsd*)have_minimum_ifreq=yes;;
  *-next*)have_minimum_ifreq=yes;;
  *-openbsd*)have_minimum_ifreq=yes;;
  *-rhapsody*)have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
  yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
  no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
  *)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
case "$host" in
    *aix3.2*) PORT_DIR="port/aix32";;
    *aix4*) PORT_DIR="port/aix4";;
    *aux3*) PORT_DIR="port/aux3";;
    *bsd2*) PORT_DIR="port/bsd2";;
    *.bsd*) PORT_DIR="port/bsdos";;
    *-cygwin*) PORT_DIR="port/cygwin";;
    *-darwin*) PORT_DIR="port/darwin";;
    *.osf*) PORT_DIR="port/decunix";;
    *.freebsd*) PORT_DIR="port/freebsd";;
    *.hpux9*) PORT_DIR="port/hpux9";;
    *.hpux10*) PORT_DIR="port/hpux10";;
    *.hpux11*) PORT_DIR="port/hpux";;
    *-iri*) PORT_DIR="port/iri";;
    *.linux*) PORT_DIR="port/linux";;
    *.lynxos*) PORT_DIR="port/lynxos";;
    *.mpe*) PORT_DIR="port/mpe";;
    *.netbsd*) PORT_DIR="port/netbsd";;
    *.next*) PORT_DIR="port/next";;
    *.openbsd*) PORT_DIR="port/openbsd";;
    *.qnx*) PORT_DIR="port/qnx";;
    *.rhapsody*) PORT_DIR="port/rhapsody";;
    *.solaris2.5*)
        BSD_COMP="#define BSD_COMP 1"
        SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
        USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
        PORT_DIR="port/solaris";;
    *.solaris2.*)
        BSD_COMP="#define BSD_COMP 1"
        SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
        USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
        PORT_DIR="port/solaris";;
    *.ultrix*)
        PORT_DIR="port/ultrix";;
    *.sco-sysv*)
        PORT_DIR="port/unixware20";;
    *.sco-sysv*)
        PORT_DIR="port/unixware212";;
    *.sco-sysv*)
        PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

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# Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>,
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>,
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])
AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for int endnetent)
AC_TRY_COMPILE(
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE(
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE(
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1")
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,
    [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
    [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_DEFINE(HAVE_GETADDRINFO)
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAIISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [  
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_IFLIST_SYSCTL)],
[AC_MSG_RESULT(no)])

#  
# Check for some other useful functions that are not ever-present.
AC_CHECK_FUNC(strsep,
[ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
[ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)
AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSERROR_LIST="#undef USE_SYSERROR_LIST"],
[USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "l"',
[AC_MSG_RESULT(ll)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"',
[AC_MSG_RESULT(default ll)]
ISC_PLATFORM_QUADFORMAT='#define ISC_PLATFORM_QUADFORMAT "ll"')
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([include <sys/types.h>]
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);
.
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
.
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
.
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
.
AC_TRY_COMPILE({
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
},[
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
.
ISC_SOCKLEN_T="#define ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)}
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
},
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int *
ngroups"
.
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *
ngroups"
).
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int *ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
  [
    #undef _REENTRANT
    #define _REENTRANT
    #define __OSF_SOURCE
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    struct netent *
    getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
    int buflen) {} 
  ],
  [return (0)],
  [
    NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
    NET_R_BAD="#define NET_R_BAD NULL"
    NET_R_COPY="#define NET_R_COPY buf, buflen"
    NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
    NET_R_OK="#define NET_R_OK nptr"
    NET_R_SETANSWER="#define NET_R_SETANSWER"
    NET_R_RETURN="#define NET_R_RETURN struct netent *"
    GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
    NETENT_DATA="#define NETENT_DATA"
  ],
  AC_TRY_COMPILE(
    [
      #undef _REENTRANT
      #define _REENTRANT
      #define __OSF_SOURCE
      #undef __USE_MISC
      #define __USE_MISC
      #include <netdb.h>
      int getnetbyaddr_r (unsigned long int, int, struct netent *,
          char *, size_t, struct netent **, int *);
    ],
    [return (0)],
    [
      NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errno"
      NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#define NETENT_DATA"

AC_TRY_COMPILE(
[ undef_REENTRANT
#define_REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
]
return (0));
]

NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"

AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
]
return (0));
]

NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
]
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
}

case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[ #undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
], [return (0);],
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[ #define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
], [return (0);],

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AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
  [ 
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    void endnetent_r(void);
  ],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
  ],
AC_TRY_COMPILE(
  [ 
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int endnetent_r(struct netent_data *);
  ],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
  ],
AC_TRY_COMPILE(
  [ 
    #undef _REENTRANT
    #define _REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void endnetent_r(struct netent_data *);
  ],
AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
    
#include <grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
        int buflen) {}
),

GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
),

GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENTR_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

AC_CHECK_FUNC(endgrent_r,

GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,

GROUP_R_SET_RESULT="#undef GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  struct hostent *gethostbyname_r
  (const char *name, struct hostent *hp, char *buf, int len, int *h_errno) {}
  ],
  [return (0);],
  [
  HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errno"
  HOST_R_BAD="#define HOST_R_BAD NULL"
  HOST_R_COPY="#define HOST_R_COPY buf, buflen"
  HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
  HOST_R_ERRNO="#define HOST_R_ERRNO *h_errno = h_errno"
  HOST_R_OK="#define HOST_R_OK hptr"
  HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
  HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
  HOSTENT_DATA="#undef HOSTENT_DATA"
  ]
),
AC_TRY_COMPILE(
[
  #undef __USE_MISC
  #define __USE_MISC
  #include <netdb.h>
  int gethostbyname_r(const char *name,
   struct hostent *result,
   struct hostent_data *hdptr);
  ],
  [hostent_data *hdptr"
  HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
  HOST_R_BAD="#define HOST_R_BAD (-1)"
  HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
}
AC_TRY_COMPILE(
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern int gethostbyname_r (const char *,
        struct hostent *,
        char *, size_t,
        struct hostent **,
        int *);
    ],
    ],
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
))}

HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)
AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
}
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
},
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
}
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
},
AC_TRY_COMPILE({
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
}
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
},

AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
    #undef __REENTRANT
    #define __REENTRANT
    #undef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    extern void sethostent_r(int flag, struct hostent_data *ht_data);
],[
    [HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
    HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
],
    AC_TRY_COMPILE([
        #undef __REENTRANT
        #define __REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        extern int sethostent_r(int flag, struct hostent_data *ht_data);
    ],[
        [HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
        HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"
],
    AC_TRY_COMPILE([
        #undef __REENTRANT
        #define __REENTRANT
        #undef __USE_MISC
        #define __USE_MISC
        #include <netdb.h>
        void sethostent_r (int);
    ],[
        [HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
        HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
    ],
    AC_MSG_CHECKING(struct passwd element pw_class)
    AC_TRY_COMPILE([
        #include <sys/types.h>
        #include <pwd.h>
    ],[
        [struct passwd *pw; pw->pw_class = "";]
    ],
    AC_MSG_RESULT(yes)
    AC_DEFINE(HAS_PW_CLASS)
AC_MSG_RESULT(no)
)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
},
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE({
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
},
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE( [
#ifndef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
AC_TRY_COMPILE(
    [
    #ifndef __USE_MISC
    #define __USE_MISC
    #include <netdb.h>
    int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) { } ]
    ]
    [return (0);],
    [NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
    NGR_R_BAD="#define NGR_R_BAD (0)"
    NGR_R_COPY="#define NGR_R_COPY buf, buflen"
    NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
    NGR_R_OK="#define NGR_R_OK 1"
    NGR_R_RETURN="#define NGR_R_RETURN int"
    ]
    AC_TRY_COMPILE(
    [NGR_R_ARGS="#define NGR_R_ARGS void **buf"
    NGR_R_BAD="#define NGR_R_BAD (0)"
    NGR_R_COPY="#define NGR_R_COPY buf"
    NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
    NGR_R_OK="#define NGR_R_OK 1"
    NGR_R_RETURN="#define NGR_R_RETURN int"
    NGR_R.Private="#define NGR_R.Private 1"
    ]
    [return (0);],
    [NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
    NGR_R_BAD="#define NGR_R_BAD (0)"
    NGR_R_COPY="#define NGR_R_COPY buf, buflen"
    NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
    NGR_R_OK="#define NGR_R_OK 1"
    NGR_R_RETURN="#define NGR_R_RETURN int"
    ]
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[ case "$host" in
  *bsd*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
  ;
  *)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
  ;
  esac
 ]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(inetgrent_r,
AC_DEFINE(NEED_INETGRENT_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE( [
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) {}
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
)
.

PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
    [  
      #undef _REENTRANT
      #define _REENTRANT
      #undef __USE_MISC
      #define __USE_MISC
      #include <netdb.h>
      void endprotoent_r(void);
    ]
    ,
    [  
      PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
      PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
      PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
    ]
    ,
    )
    ,
    [  
      PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
      PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
      PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
    ]
    )
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
    [  
      #undef _REENTRANT
      #define _REENTRANT
      #undef __USE_MISC
      #define __USE_MISC
      #include <netdb.h>
      void setprotoent_r __P((int));
    ]
    ,
    );

---
Open Source Used In Cat9K 17.7.1 5689
AC_DEFINE(NEED_GETPWENT_R)

AC_TRY_COMPILE(
[ 
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,
,
]

PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"

ACDEFINE(NEED_GETPWENT_R)

AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(


```c
#include <pwd.h>
void endpwent_r(FILE **pwfp);
},
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
),

PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE(
#include <pwd.h>
void setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
AC_TRY_COMPILE(
#include <pwd.h>
int setpwent_r(FILE **pwfp);
},
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)

PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))
```
AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE[]{
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) {}
},[return (0)];
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
]
,
AC_TRY_COMPILE[]{
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
},[return (0)];;
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
),
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(  
  [  
  #undef_REENTRANT  
  #define_REENTRANT  
  #undef__USE_MISC  
  #define__USE_MISC  
  #include<netdb.h>
  void endservent_r(void);
  ]  
  ,  
  [  
  SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"  
  SERV_R_END_RETURN="#define SERV_R_END_RETURN void "  
  SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"  
  ]  
  ,  
  )
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)  
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(  
  [  
  #undef_REENTRANT  
  #define_REENTRANT  
  #undef__USE_MISC  
  #define__USE_MISC  
  #include<netdb.h>
  void setservent_r(int);
  ]  
  ,  
  [  
  SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
  ]  
  ,  
  )
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
,
[
INNETGR_ARGS="#undef INNETGR_ARGS"
]
,
AC_TRY_COMPILE(
[

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int innetgr(char *netgroup, char *host, char *user, char *domain);
]
,
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

ACTRY_COMPILE(
[

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
,
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(char *);
]
,
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"
]
,
)
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)
#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"
case "$host" in
  *-bsdi3.1*)
    hack_shutup_sputaux=yes
  ;;
  *-bsdi4.0*)
    hack_shutup_sigtwait=yes
    hack_shutup_sputaux=yes
    hack_shutup_in6addr_init_macros=yes
  ;;
  *-bsdi4.1*)
    hack_shutup_stdargcast=yes
case "$hack_shutup_pthreadonceinit" in
  yes)
    #
    # Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
    #
    ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
  esac

case "$hack_shutup_sigwait" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning for sigwait().
    #
    AC_DEFINE(SHUTUP_SIGWAIT)
  esac

case "$hack_shutup_sputaux" in
  yes)
    #
    # Shut up a -Wmissing-prototypes warning from <stdio.h>.
    #
    AC_DEFINE(SHUTUP_SPUTAUX)
  esac

case "$hack_shutup_stdargcast" in
  yes)
    #
    # Shut up a -Wcast-qual warning from va_start().
    #
    AC_DEFINE(SHUTUP_STDARG_CAST)
  esac

case "$hack_shutup_in6addr_init_macros" in
  yes)
    AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
  esac
# Substitutions

AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9.Make_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(
    make/rules
    make/mkdep
    make/includes
    Makefile
    bsd/Makefile
    dst/Makefile
    include/Makefile
    inet/Makefile
    irs/Makefile
    isc/Makefile
    nameser/Makefile
    port_after.h
    port_before.h
    resolv/Makefile
    port/Makefile
    ${PORT_DIR}/Makefile
    ${PORT_INCLUDE}/Makefile
    )

# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:

Found in path(s):
* /opt/cola/permits/1130450060_1615189005.74/0/lib-tar/lib/bind/configure.in
PCRE2 Licence

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.

Releases 10.00 and above of PCRE2 are distributed under the terms of the "BSD" licence, as specified below, with one exemption for certain binary redistributions. The documentation for PCRE2, supplied in the "doc" directory, is distributed under the same terms as the software itself. The data in the testdata directory is not copyrighted and is in the public domain.

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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PCRE2 Just-In-Time Compilation Support

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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PCRE2 independently.

End

PCRE2 LICENCE

Please see the file LICENCE in the PCRE2 distribution for licensing details.

End

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1.443 python3-wcwidth 0.1.7 r0

1.443.1 Available under license:

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1.444 pam 1.3.1-14.el8

1.444.1 Available under license:

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
 *
 * Copyright (c) 2011 by Cisco Systems, Inc.
 * 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.
  *-----------------------------------------------------------------
  * $Log$
  * Branch:
  *-----------------------------------------------------------------
  * $Endlog$
  */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/internal_inc/pam_ppm_redirect_ut.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_target.c : pam target api implementation
 *                  routines
 * June 2011, c3pl-dev
 * *
 * Copyright (c) 2011, 2016-2017 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_target.c
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------------------------
 * pam_app_db_typedef.h
 * *
 * Aug 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/internal_inc/pam_app_db_typedef.h
No license file was found, but licenses were detected in source scan.
## Sub-Component "c3pl/client/pam":
##
## C3PL Client Policy Abstraction Module
##
## Author: c3pl-dev
## Date: June 2011
##
## Copyright (c) 2011 by cisco Systems, Inc.
## All rights reserved.
##

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

/*
  * $Id$
  * $Source$
  *--------------------------------------------------------------------------------
  * pam_app_data_db.c : pam app data db implementation routines
  *
  * Aug 2011, c3pl-dev
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
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *----------------------------------------------------------------------
 * pam_class.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_class.h
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_exception_type.h

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

/*-----------------------------------------------
 * pam_app_data_db.h: Function delcarations for manipulating the PAM APP DATA DB
 * 
 * Aug 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/internal_inc/pam_app_data_db.h

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

/*-----------------------------------------------
 * pam_app_db_types.h: Internally used data structures for PAM APP DB
 * 
 * Aug 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/internal_inc/pam_app_db_types.h

No license file was found, but licenses were detected in source scan.
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    ""
SHORT   "RM_ACTION_FAIL"
ATTRIBUTE[pam_exception_debug]  "REMOVE_ACTION_FAILED"
END ITEM

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_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 ""
   SHORT "RETRIEVE_CHILD_POL_FAIL"
   ATTRIBUTE[pam_exception_debug] "RETRIEVE_CHILD_POL_FAIL"
END ITEM

ITEM PAM_DEL_PARTIAL
   LONG ""
   SHORT "DELETE_PARTIAL"
   ATTRIBUTE[pam_exception_debug] "DELETE_PARTIAL"
END ITEM

END ENUM

END
* Copyright (c) 2011-2012 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
  */opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_hdl.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * pam_target.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_target.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------
 * pam_class_typedef.h
 *
 * Aug 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/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
 * routines
 * June 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.

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

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

/*------------------------------------------------------------------
* pam_app_data_db_types.h: Internally used data structures for PAM APP DATA DB
* Aug 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/internal_inc/pam_app_data_db_types.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_hdl.h: Function declarations for manipulating handles
*------------------------------------------------------------------
*/
* Aug 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/internal_inc/pam_hdl.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* pam_app_db.h: Function delcarations for manipulating the PAM APP DB
* 
* Aug 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/internal_inc/pam_app_db.h
No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
# pam_obj.enum -- PAM obj type enumerations
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 by cisco Systems, Inc.
# All rights reserved.
#-----------------------------------------------

BEGIN PAM_OBJC_ENUM

ENUM pam_obj_type

  # String to dump for debug commands.
  ATTRIBUTE pam_obj_debug
    TYPE char*
  END ATTRIBUTE

ITEM PAM_OBJC_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

END ENUM

END

Found in path(s):
  */opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_obj.enum
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.
* All rights reserved
*------------------------------------------------------------------
*/

Found in path(s):
  */opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_provision.h
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
*------------------------------------------------------------------
*/

Found in path(s):
  */opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/pam_obj_typedef.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
* pam_action.c : pam action api implementation
* routines
*------------------------------------------------------------------
*/

Found in path(s):
*/opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/src/pam_action.c
No license file was found, but licenses were detected in source scan.

#----------------------------------------------------------------------
# pam_class.enum -- PAM class type enumeration
#
# Aug 2011, c3pl-dev
#
# Copyright (c) 2011 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

Found in path(s):
*/opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/internal_inc/enum/pam_class.enum
No license file was found, but licenses were detected in source scan.

/*----------------------------------------------------------------------
* pam_hdl_types.h: Pertaining to PAM handles
*
* Aug 2011, c3pl-dev
*
* Copyright (c) 2011-2012 by Cisco Systems, Inc.
* All rights reserved
*/

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/include/pam_hdl_types.h
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
 *
 * Copyright (c) 2011 by cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130449949_1615189670.63/0/pam-tar/pam/ut/src/pam_ppm_shim.c
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
 *
 * Copyright (c) 2011, 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------
 */

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
 */
1.445 cunit 2.1-3 r0

1.445.1 Available under license:

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Kindly reflect back the enhancements made to this package to the author/project page located at http://sourceforge.net/projects/cunit/ or the same may be notified to me.

Wishing you good time with CUnit.

Anil Kumar
Email: anilsaharan@users.sourceforge.net
Project Page: http://www.sourceforge.net/projects/cunit/

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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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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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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The End

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

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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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1.451 pcre 8.42 4.el8

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infra/systemd/system.conf  
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/usr/lib/systemd/systemd  
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usr/lib/systemd/system/basic.target  
/usr/lib/systemd/system/reboot.target  
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/usr/lib/systemd/system/dev-mqueue.mount

usr/lib/systemd/system/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/systemd-journald.flush.service

/usr/lib/systemd/system/systemd-journald.flush.service

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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

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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
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linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.statd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sm-notify
infra/systemd/nfs-statd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/nfsstat

#files related to nfs-idmapd.service
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.idmapd
infra/systemd/var-lib-nfs-rpc_pipefs.mount
# The directory for plugin is fix to /usr/lib/libnfsidmap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/libnfsidmap/nsswitch.so
linkfarm/${ARCH}${SDK}/etc/idmapd.conf
infra/systemd/nfs-idmapd.service
contrib/initscripts/binos/etc/${NFS_VER}/nfs-utils.conf

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/nfsv4/nfs-common
No license file was found, but licenses were detected in source scan.

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Open Source Used In Cat9K 17.7.1 5858

(include all-common)

(include systemd)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all

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

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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}${SDK}/usr/sbin/agetty  usr/sbin/agetty
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/blockdev usr/sbin/blockdev
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/cfdisk  usr/sbin/cfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/ctrlaltdel  usr/sbin/ctrlaltdel
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/fdisk   usr/sbin/fdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/hwclock  usr/sbin/hwclock
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/mkswap  usr/sbin/mkswap
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/pivot_root  usr/sbin/pivot_root
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/sfdisk  usr/sbin/sfdisk
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapoff  usr/sbin/swapoff
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/swapon   usr/sbin/swapon
linkfarm/${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/colcrt   usr/bin/colcrt
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
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hexdump usr/bin/hexdump
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/hostname usr/bin/hostname
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcrm   usr/bin/ipcrm
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcs    usr/bin/ipcs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/isb     usr/bin/isb
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/last    usr/bin/last
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/login   usr/bin/login
linkfarm/${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
```
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/util-linux

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# This file contains all needed files related to nfs server daemon.

(include nfs-common)
# The following kernel modules are needed when NFSV4 support is configured
# in kenrel.
# nfsd.ko depend on auth_rpcgss.ko
# auth_rpcgss.ko depend on oid_registry.ko
```
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```
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/bin/ipcalc
```

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```
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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)
Open Source Used In Cat9K 17.7.1

(include ncurses)
(include netbase)
(include netcat)
(include net-tools)
(include $(NFS_VER)/nfs-utils-client)
(include pciutils)
(include procps)
(include psmisc)
(include rpcbind)
(include sed)
(include shadow)
(include strace)
(include sysklogd)
(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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(include systemd-common)

linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/lib/systemd/system/preset/90-systemd.service
usr/lib/systemd/system/preset/90-systemd.service
/usr/lib/systemd/system/tmp.mount
/usr/lib/systemd/system/tmp.mount
infra/systemd/sysinit.target
infra/systemd/cpdl-symlink.service
linkfarm/$(SYSROOT)$(ARCH)$(SDK)/usr/lib/systemd/system/systemd-journald.service
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
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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
# compatible 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 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
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/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)

Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/all-swrt
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#
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# This file is to store extra files needed to support NFSV4 client.
#
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

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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#
# 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
Found in path(s):
* /opt/cola/permits/1130449912_1615191941.58/0/iptables-tar/linux-system/audit
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#
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#
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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/1130449912_1615191941.58/0/iptables-tar/linux-system/iputils

1.458 btrfs-tools 5.2.2 r0

1.458.1 Available under license :

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1.465  sun-rpc Dec.  2006
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rstat_proc.c

(2) krb5

authunix_prot.c

bindresvport.c
clnt_generic.c
clnt_perror.c
clnt_simple.c
get_myaddress.c
getrpc.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.hin
xdr_alloc.c
xdr_reference.c

possibly also the following:
include/gssrpc/auth.h

include/gssrpc/auth_unix.h

include/gssrpc/clnt.h
include/gssrpc/netdb.h

include/gssrpc/pmap_clnt.h
include/gssrpc/pmap_prot.h

include/gssrpc/pmap_rmt.h
include/gssrpc/rpc.h

include/gssrpc/rpc_msg.h
include/gssrpc/svc_auth.h

include/gssrpc/svc.h
include/gssrpc/types.hin

include/gssrpc/xdr.h
kadmin/server/ovsec_kadmd.c

lib/rpc/auth_none.c
lib/rpc/auth_unix.c

lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c

lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c

lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c
lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c

lib/rpc/getrpcent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c

lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c

lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c

lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesizes.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c
(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authxprot.c
bindrsvprt.c
bootparam_prot.x
clnt_gen.c
clnt.h
clnt_perr.c
clnt_raw.c
clnt_simp.c
clnt_tcp.c
clnt_udp.c
clnt_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
getrpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
netdb.h
nfs_prot.x
nlm_prot.x
openchild.c
pmap_clnt.c
pmap_clnt.h
pmap_prot2.c
pmap_prot.c
pmap_prot.h
pmap_rmt.c
pmap_rmt.h
pm_getmaps.c
pm_getport.c
rex.x
rpc_clntout.c
rpc_cmsg.c
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thanks

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Oracle Corporation
1.466 zstd 1.4.4 1.el8

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1.471 libaio 0.3.111 r0

1.472 lvm2 1.02.175-0.4.20201222gitb84a992.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.
If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
```

1.475 glibc 2.28

1.475.1 Available under license:

```
/* _setjmp is implemented in setjmp.S */
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document, hence no sectioning command or @node.
@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
```
@subheading Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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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.

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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 \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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.
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.

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:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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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.

@item 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.

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

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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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DAMAGES.
@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page
@end subheading How to Apply These Terms to Your New Libraries

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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.

@example
@example
Copyright (C) @var{year}  @var{name of author}
@example
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under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

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Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
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USA.
@end example

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.

@smallexample
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

/* setjmp is implemented in setjmp.S */

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Version 2, June 1991

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

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4. You may copy and distribute the Library (or a portion or 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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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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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
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1.481.1 Available under license :
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/*
*------------------------------------------------------------------
* ip_prefixlist_ionized.c - IP Prefix Lists support for ionized processes
* August 2001, Siva Yaragalla
*/
* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ionized.c
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/*-------------------------------
 * IP routemap test commands
 *
 * May 2003, Tanya Shastri
 *
 * All rights reserved.
 *
 *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_test_ip_routemap.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* Registry for IP routing infrastructure in ION
 *
 * September 2001, Fan Kong
 *
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_registry.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* Parse chains for router Address Family mode
* June 2002, Donnie Savage
*
* All rights reserved.
* $Log$
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_chain.c
No license file was found, but licenses were detected in source scan.

/**********************************************************************
* exec_debug_routemap.h -- Debugging for Route-map IPC
* July 1998, Wilber Su
* All rights reserved.
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_debug_routemap.h
No license file was found, but licenses were detected in source scan.

/**********************************************************************
* ion_iprouting_cmd_registry.c
* September 2001, Rashmi Shrivastava
* Copyright (c) 2001, 2003, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ion_iprouting_cmd_registry.c
No license file was found, but licenses were detected in source scan.

/**********************************************************************
* exec_debug_routemapapi.h -- Debugging for Route-map API
*
No license file was found, but licenses were detected in source scan.

# $Id$
#
#........................................................................................................
#
# iprouting.startup - ION iprouting process .startup file
#
# October, 2001, Fan Kong
#
#........................................................................................................
#
# All rights reserved.
#
#........................................................................................................

name: iprouting.iosproc
path:/sbin
feature: iprouting
level: 100
envs: RLIMIT_NOFILE=65535

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting.startup

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/*
* $Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.h,v $
*---------------------------------------------------
* route_map.h
*
* Route map support data structures.
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------
* $Log: route_map.h,v $
* Revision 3.3.12.6 1996/05/04 01:22:42 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra
Open Source Used In Cat9K 17.7.1  6097

* CSCdi54830: IP features commit
  * Branch: California_branch
  *
  * Revision 3.3.12.4  1996/04/05  03:46:42  rchandra
  * CSCdi53755: BGP: flap dampening settings not flexible enough
  * Branch: California_branch
  * - add route-map support to set flap dampening parameters
  *
  * Revision 3.3.12.3  1996/04/02  07:29:32  dkatz
  * CSCdi52277: Redistribution metric problems with IGRP/EIGRP
  * Branch: California_branch
  * Always store canonical metrics scaled for IGRP, and make EIGRP do
  * its own scaling internally. Get the scaling right in all three
  * places.
  *
  * Revision 3.3.12.2  1996/03/28  23:59:20  rchandra
  * CSCdi52098: BGP: exact keyword not accepted by route-map in community
  * match
  * Branch: California_branch
  * - fix my silly bug in handling exact community matching
  * - limit the range of valid community to 0xFFFF0000
  * - fix a cosmetic bug in show ip community-list
  *
  * Revision 3.3.12.1  1996/03/28  22:28:27  rchandra
  * CSCdi52880: BGP: generate error message for unsupported route-map
  * options
  * Branch: California_branch
  * - generate error message when unsupported route-map option is used
  * - tread confederation EBGP neighbors similar to internal neighbors in
  *   best path selection
  * - fix the bug in bgp_compare_med, so that during MED comparison,
  *   confederation information is skipped properly
  * - confederation EBGP paths should be inserted into the IP table with
  *   internal distance
  * - do not consider common-AS neighbors as confederation neighbors
  * - during 'clear ip bgp dampening' avoid skipping paths
  * - undo the patch to the radix version walker
  *
  * Revision 3.3  1996/02/17  01:23:27  myeung
  * CSCdi49210: match tag clause does not work with static routes
  *
  * Revision 3.2  1995/11/17  17:37:17  hampton
  * Remove old entries from the RCS header logs.
  *
  * Revision 3.1  1995/11/09  12:10:38  shaker
  * Bump version numbers from 2.x to 3.x.
  *
  * Revision 2.4  1995/09/25  08:31:20  tli
* CSCdi40960: ISP jumbo patch 2
* 
* Revision 2.3 1995/07/12 07:19:12 tli
* CSCdi36426: Policy routing will not disable on an interface
* - Policy routed packets were creating fastswitching cache entries.
*    That's not till _next_ release.
* - Add counters to record packet and byte count on a per route map entry
*    basis.
* - Marketing identified a catastrophic deficiency. Implemented "set ip
tos" and "set ip precedence" to cover this deficiency.
* 
* Revision 2.2 1995/07/06 23:12:41 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add `neighbor <x.x.x.x> default-originate route-map <tag>\' command.
* 
* Revision 2.1 1995/06/07 21:10:57 hampton
* Bump version numbers from 1.x to 2.x.
* 
*---------------------------------------------------------------
* $Endlog$
*="/"

Found in path(s):
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map.h

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

/* $Id: ip_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.c,v $
*---------------------------------------------------------------
* ip_routing.c -- Generic IP routing functions
* 
* Mar 1995 Tony Li
* 
* All rights reserved.
*---------------------------------------------------------------
* $Log: ip_routing.c,v $
* Revision 3.2 1995/11/17 17:34:11 hampton
* Remove old entries from the RCS header logs.
* 
* Revision 3.1 1995/11/09 12:08:05 shaker
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1 1995/06/07 21:07:03 hampton
* Bump version numbers from 1.x to 2.x.
* 
*---------------------------------------------------------------
* $Endlog$
/*
* Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_routing.c
* No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* router_af_parse.c
* 
* Route Address Family command and action definitions. Derived from
* router_af_chain.c
* 
* May 2002, Victor Kamensky
* 
* Copyright (c) 2002-2010, 2012, 2014-2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------
*/

/*
* Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_parse.c
* No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*-----------------------------------------------
* policylist.c - Routines to handle policy-list commands
* 
* Apr. 2000, Rex Fernando
* 
* All rights reserved.
*-----------------------------------------------
*/

/*
* Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist.c
* No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* iprouting_common.h - Basic types for IP routing (IPv4/IPv6)
* 
* Contains:
* - address family enum,
* - tableid type and related macros
* - topoid type and related macros
* - private topoid definitions and APIs
* - generic non-routing ID definitions/APIs
*/
* Warning: this file should not have any dependency on other header file
* except those where basic C types are defined.
*
* June 2003, Luc Revardel
*
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*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_common.h
No license file was found, but licenses were detected in source scan.

                                                                         
                                                                         *
                                                                         * cfg_int_ip2_vnet_routing.h
                                                                         *
                                                                         * Interface VNET submode configuration IP commands.
                                                                         *
                                                                         * Copyright (c) 2009-2010 by cisco Systems, Inc.
                                                                         * All rights reserved.
                                                                         *
                                                                         *------------------------------------------------------------------
                                                                         */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_vnet_routing.h
No license file was found, but licenses were detected in source scan.

                                                                         
                                                                         *
                                                                         * IP routing show commands
                                                                         *
                                                                         * May 1993, Robert Widmer
                                                                         *
                                                                         * All rights reserved.
                                                                         *
                                                                         *------------------------------------------------------------------
                                                                         *
                                                                         *------------------------------------------------------------------
                                                                         */

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

!--------------------------------------------------------------
! iproutingcmn_router_cmd.sesut - IPv4 Routing Common Router
!   Commands Unit Test Routines
!
! December 2007, Chi Iong Ansjory
!
! Copyright (c) 2007 by cisco Systems, Inc.
! All rights reserved.
!--------------------------------------------------------------

! Sample unit test description file.
! This file is used for generation of unit test module by SESUT.
! See http://wwwin-ses.cisco.com/unittest/sesut_ios.html for
! information about SESUT.
!
! Include a description of your test here.
!
! This is made up of many sections. Each section header starts with % in
! first column. It is followed by the section identifier.
! Lines that have '|' in the first column are considered comments.
! Blank lines are ignored.
!
! You can report success/failure of your test by calling the following
! functions.
! Call sesut_<file prefix>_testpass to indicate test success.
! void sesut_<file prefix>_testpass(void);
! Call sesut_<file prefix>_testfail to indicate test failure.
! void sesut_<file prefix>_testfail(const char *fmt, ...);
! The length of the formatted string should be less than or equal
! to 255. Else it will be truncated.
! Prototypes for these functions are included in the header file that
! is generated by SESUT.

% Cflow
! Enter the files/subsystems in the unit under test.
! These files will be instrumented for Cflow and MIF(if MIF is
! available in your view). GDB flag -g is used during compilation.
!cflow_list=$(sub_mif) xyz.o $(my_subsys) abc.o
! This list is ignored if ses_iouut is used. ses_iouut instruments all files
! in UUT(defined by -old and -new options).

% MIF
! Enter MIF configuration
! If MIF configuration is not specified and cflow_list is specified
! then a default MIF configuration is used.
% API
! Include DTD configuration.
! Not all features of DTD are available with SESUT yet.
! List headers/text that contain prototypes for the functions to be tested
! for robustness followed by a line consisting of '-'s followed by
! the list of functions to be tested for robustness.
! It is assumed that a .h file that includes all the text listed above
! the line consisting of '-'s is self-compiling in the same context as
! the one used to compile the .sesut file and has the definitions of
! all the objects whose pointers are referenced.
!master.h
!../testtools/testtools.h
!../testtools/testtools_private.h
<!stdio.h>
!void mynewapi(int,int);
!------------------------------------------------------
!mif_enable
!mif_disable
!mif_clear
!mif_lock
!mynewapi

% env
! Use this section to list object modules that are not
! part of the standard build but are used by the tests defined in this
! file. The text following "link:" is inserted into the final link step.
!link:  xyz.o abc.o
!
! Use this section to add any special 'CFLAGS' needed to compile sesut
! generated test file
!cflags: -I../http/http_core/include
!cflags: -I../http/http_core/server
!cflags: -I../ios_http_core/config -I../http/http_core/lib
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE
You can specify functions to be executed before and after the test.
pretest is executed before executing the unit test and the posttest is
executed after executing the unit test. These are executed once regardless
of the repeat count. The prototypes of these functions are expected to be:
    void <pretest>(void);
    void <posttest>(void);
Define these functions in the 'model prolog' section. Note that these
are optional. You can have one or both or none.
<pretest:config_my_feature
$posttest:validate_results
If want want your pretest/posttest functions to receive same
parameters as the test then specify the functions as:
<pretest_withparams:config_my_feature
$posttest_withparams:validate_results
The prototypes for these functions would be:
    void <pretest_withparams>(<types of parameters>)
    void <posttest_withparams>(<types of parameters>)
Parameters are specified using "parameter:" keyword in % model" section.
If both {pre|post}test and {pre|post}test_withparams are specified:
pretest is executed before pretest_withparams.
posttest is executed after posttest_withparams.

You can specify a initializer/finalizer function to be executed
at the time of test initialization/removal.
Initializer is executed once during the lifetime of the current instance of
the test. If the test is part of the image then the initializer is executed
during subsystem initialization. If the test is a DLST(dynamically loaded)
then the initializer is executed just after the dynamic load.
The finalizer is executed when the test is removed (happens when the test is
being replaced).
Note that the subsystems in the DLST are not initialized. You must list the
subsystem init functions in the initializer function. Subsystem header is
ignored for DLST's. You will not see the subsystems for DLST's listed in
"show subsys" output.
Use initializer to perform tasks like registry addition, memory allocation etc.
Similarly use the finalizer to free these resources. This is an important
consideration. Treat them like constructor/destructor for the DLST.
The prototypes of these functions are expected to be:
    void <initializer>(void);
    void <finalizer> (void);
Define these functions in the 'model prolog' section. Note that these
are optional. You can have one or both or none.
<initializer:my_init
<finalizer:my_finit

% model prolog iou
This code will be copied unchanged to the start of the generated .c file
Include definitions, declarations, include statements that
are used in the model
You can include stubs for the functions that are not ready yet but are
invoked.
If you choose to have pretest and posttest functions include them here.

"model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are
creating alters global state then use "dt" keyword. This informs
automation framework that device should be reloaded prior to
running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.

% model prolog dt

#include IOS_INC(testtools/sesutlib_ios.h)
#include <routing/iprouting_cmnm/include/ip_stats.h>
#include <routing/iprouting_cmnm/include/iprouting_debug.h>
#include <routing/iprouting_cmnm/include/router_af_actions_registry.h>

boolean sesrc;

% model digraph

! Describe the model. You have structured your test as a
directed graph. Start keywords in column 1. Start the code at an
offset(2TABS). This line("model digraph") can have an optional keyword.
That is "vdag". This would generate testcases representing various
acyclic paths leading from the start node. These tests cover all nodes.
This does not guarantee that all the edges are covered.
If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic
Graph) then you should use this keyword.

% model digraph vdag

! There are three keywords. They are
! start node <nodeIdentifier> - Specify the start node in the model
! node <nodeIdentifier>: - Beginning of a node description.
! Include descriptions for all edges starting at this node.
! If there is code to be executed upon entry to this node
! enter that immediately following this line but before
! entering any edge description.
! -><nodeIdentifier>: - Beginning of an edge description. This describes an
! edge from the node to &lt;n>&gt;
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,
! DBSearch, DetachLine
! These identifiers are used during runtime to present execution times
! and other data.
! You can specify parameters for your unit test as follows:
!parameters:(uint interface, char* hostname=\"abc\", uint subInterface=1)
This should come before the line specifying the start node.
The parameters can be used in the code for nodes/edges. The values for parameters are received via CLI or as a result of direct invocation of the generated function. Parameters can be of type 'uint' or 'char*'. If values for parameters are provided on CLI defaults are used.
You should provide default values. If default values are not specified then the tool would assign default values. If the type is "uint" the default value is 0. Else(type char*) the default value is "".
During automation the default values are used. Use descriptive names for parameters.
start node StartNode
You can place initialization code that needs to be executed prior to entering the start node here.
node StartNode:

! ===== 6 APIs from ip_stats.h/ip_registry.reg =====

! 1. DEFINE show_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "show ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: show_ip_interface_with_topo ------\n");

! 2. DEFINE clear_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "clear ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo ------\n");

! 3. DEFINE show_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "show ip traffic topology base");
printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo ------\n");

! 4. DEFINE clear_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "clear ip traffic topology base");
printf("\n----- SESUT Test: clear_ip_traffic_with_topo ------\n");

! 5. DEFINE show_ip_interface_stats

(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: show_ip_interface_stats ------\n");

! 6. DEFINE clear_ip_interface_stats

(void) sesut_execcommand(FALSE, "clear ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_stats ------\n");

! ===== 2 APIs from iprouting_debug.h =====

Open Source Used In Cat9K 17.7.1 6105
! 1. void
! iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);

!iprouting_debug_arr_ios_set_csb(NULL);
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----\n");

! 2. void
! iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);

!iprouting_ios_call_debug_cmd(NULL);
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----\n");

! ===== 1 API from router_af_actions_registry.reg =====

! 1. DEFINE address_family_action_named_router REMOTE 3

sesrc = reg_invoke_address_family_action_named_router(NULL);
printf("\n----- SESUT Test Reg: address_family_action_named_router -----\n");

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * iprouting_init_ios.c -- IP Routing Init code for Native IOS only
 * *
 * October 2001, Rashmi Shrivastava
 * *
 * Copyright (c) 2001-2009 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * exec_clear_routemap.h -- clear route-map counters
 */
* Copyright (c) 1986-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_routemap.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* router_topology_parse.c - Router topology command definitions.
* 
* Sept 2004, Mercia Zheng
* 
* Copyright (c) 2004-2010, 2019-2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_parse.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* ipv4_subsys.c - IPv4 Routing Startup Subsystem
* 
* July 2005, Mark Schaefer
* 
* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ipv4_subsys.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* $Id$
* $Source$
*------------------------------------------------------------------
* cfg_routemap_set.h
* 
* Process route-map set subcommands.
* 
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set.h
No license file was found, but licenses were detected in source scan.

*/
*------------------------------------------------------------------
* routemap_ios_chain.c -- Route-map generic ios parse chains that
* will be in both RP and VIP/LC
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_chain.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_ip_routing_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_ip_routing_routing.h,v $
*------------------------------------------------------------------
* IP routing routing commands
*
* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log: cfg_ip_routing_routing.h,v $
* Revision 3.3.46.3 1996/08/12 16:03:33 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.46.2 1996/06/17 23:33:31 hampton
* Implement the long sought parser "default" keyword. [CSCdi60510]
* Branch: California_branch
*
* Revision 3.3.46.1 1996/04/15 21:17:41 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.3 1995/12/10 00:42:36 pst
* CSCdi38750: Allow static routes with both next hop and interface
* also add "permanent" keyword for non-flapping static routes
*
* Revision 3.2 1995/11/17 17:31:40 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:04:59 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.4 1995/10/23 18:33:19 pst
* CSCdi42608: allow IP cache ager to be shut down, make the
* "ip cache-ager" and "ip cache-invalidate-delay"
* commands internal only.
*
* Revision 2.3 1995/07/13 21:39:05 ahh
* CSCdi36962: UDP parsing of tacacs-ds port name broken
* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS_PORT
* for backwards compatibility.
*
* Revision 2.2 1995/07/11 21:52:08 raj
* CSCdi36510: parser doesn't accept ip forward-protocol udp xdmcp
* (Actually the parser didn't accept *any* symbolic names in the position
* of the UDP port number; only numbers. It now uses the UDP_PORT macro
* instead.
*
* Revision 2.1 1995/07/01 12:15:42 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:08:34 hampton
* Bump version numbers from 1.x to 2.x.
*
*  nbytes: 7 bytes
*
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_routing_routing.h
No license file was found, but licenses were detected in source scan.

/*
* iprouting_init_ionblob.c -- IP Routing Init code for blog in ION only
* October 2001, Rashmi Shrivastava
* Copyright (c) 2001-2017 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionblob.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * IP routing parse chains
 * *
 * May 1993, Robert Widmer
 * *
 * Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.
 * All rights reserved.
 * *
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_chain.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * route2.c -- Routing Support: User Interface Routines
 * *
 * 22-March-1986, Kirk Lougheed
 * *
 * Copyright (c) 1986-2020 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

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

/*
 * ----------------------------------------------------------
 * ip_prefixlist_ionblob.c - IP Prefix Lists support for IONized clients
 * *
 * January 2002, Siva Yaragalla
 * *
 * Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *----------------------------------------------------------
 */

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

/* $Id$
 * $Source$
 * ----------------------------------------------------------
 * lfafrr_registry.c
 * *
 * July 2010, Ahmed Bashandy
 * *
 * All rights reserved.
 *----------------------------------------------------------
 * $Log$
 * ----------------------------------------------------------
 * $Endlog$
 */

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

/*
 * ----------------------------------------------------------
 * route_map_ionized.c- Route Maps support for IONized processes
 * *
 * July 2001, Siva Yaragalla
 * *
 * Route map subsystem for IOS style processes.
 * *
 * Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.
 * All rights reserved.
 */
/*------------------------------------------------------------------
* Address Family configuration mode commands.
*
* April 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*K$Log$
The file contains the following information:

Address Family configuration mode commands.

April 1998, Bob Thomas

Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
All rights reserved.

Benjamin Eaves

All rights reserved.

$Endlog$

Benjamin Eaves

All rights reserved.

$Endlog$

Karthik Subramaniam

All rights reserved.

Karthik Subramaniam

All rights reserved.

Karthik Subramaniam

All rights reserved.

Karthik Subramaniam

All rights reserved.

Router address family actions registry.
* May 2002, Victor Kamensky
*
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_af_actions_registry.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * CFG_ROUTER_TABLE-MAP.H
 * *
 * All Rights Reserved
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_table-map.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
 * ip_stats.h - IP for topology aware stats
 * *
 * February 2006, Jonsky Hsu
 * *
 * Copyright (c) 2006-2008 by cisco Systems, Inc.
 * All rights reserved.
 *
 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_stats.h
No license file was found, but licenses were detected in source scan.

/* $Id: iprouting_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage $
 * $Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting_init.c,v $
 *---------------------------------------------------------------
 * iprouting_init.c -- initialize IP Routing Protocol support.
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * iprouting_parser_linkpoints.h - iprouting parser linkpoint decls.
 * April, 2005
 *
 * Copyright (c) 2005, 2007-2008, 2015 by cisco Systems, Inc.
 * All rights reserved.
 *
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_parser_linkpoints.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
 * routemap_api.c -- Dynamic routemap APIs.
 * May 2003, Tanya Shastri
 *
 * Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_api.c
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
 * iprouting_parse_blob.c
 * Parser support for IP ROUTING.
 * This file implements proxy eols that call iprouting parser remote
 * registries.
 * September 2001, Rashmi Shrivastava
 *
 * Copyright (c) 2001-2009 by cisco Systems, Inc.
 * All Rights Reserved
 *------------------------------------------------------------------
 */

Found in path(s):
*/ /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
No license file was found, but licenses were detected in source scan.

/*
*---------------------------------------------------------------
* router_topology_parse.h
* *
* Router topology parser functions declarations.
* *
* Sept 2004, Mercia Zheng
* *
* Copyright (c) 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/router_topology_parse.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*---------------------------------------------------------------
* CFG_ROUTER_OUTPUT_DELAY.H
* *
* router RIP inter-frame gap subcommand
* *
* Aug 1996, Dawn Li
* *
* All rights reserved.
*---------------------------------------------------------------
* $Log$
*---------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-delay.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*---------------------------------------------------------------
* route.h -- IP routing definitions
* *
* 22-March-1986, Kirk Lougheed
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_registry.c

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

/* $id: iprouting_actions.c,v 3.2.60.2 1996/08/23 22:02:29 jserpa Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/iprouting_actions.c,v $ 
*------------------------------------------------------------------
* IP routing specific parsing functions.
* 
* August 1994, Bruce Cole
* 
* All rights reserved.
*------------------------------------------------------------------
* $Log: iprouting_actions.c,v $
* Revision 3.2.60.2 1996/08/23 22:02:29 jserpa
* CSCdi67021: router ospf <as> gets nv-ramed in reverse order of
* configuration
* Branch: California_branch
* 
* Revision 3.2.60.1 1996/04/15 21:18:11 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
* 
* Revision 3.2 1995/11/17 17:34:38 hampton
* Remove old entries from the RCS header logs.
* 
* Revision 3.1 1995/11/09 12:08:28 shaker
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1 1995/06/07 21:07:33 hampton
* Bump version numbers from 1.x to 2.x.
* 
*------------------------------------------------------------------
No license file was found, but licenses were detected in source scan.

```
/* $Id$ */
* $Source$
* $Log$
* $Endlog$
```

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_actions.c

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

```
/* $Id$
* $Source$
* $Log$
* $Endlog$
```

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_actions.c

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

```
/* $Id: cfg_router_traffic-share.h,v 3.3.20.1 1996/08/12 16:03:58 widmer Exp $ */
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_traffic-share.h,v $ *
```

* cfg_router_traffic-share.h - parsing of the traffic-share command
* Oct 1993 Tony Li
* 
* All rights reserved.
* 
* $Log: cfg_router_traffic-share.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:58 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
* 
* Revision 3.3 1996/02/01 23:34:03 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
* 
* Revision 3.2 1995/11/17 17:32:35 hampton
* Remove old entries from the RCS header logs.
* 
* Revision 3.1 1995/11/09 12:06:21 shaker
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1 1995/07/01 12:16:07 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
* 
* Revision 2.1 1995/06/07 22:13:22 hampton
* Bump version numbers from 1.x to 2.x.
* 
* $Endlog$
* */

Found in path(s):
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_traffic-share.h

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

/*
* routemap_ios_blob.c -- Route map support routines that can be shared
* by RP and VIP/LC
* 
* October 14, 2001 Siva Yaragalla
* 
* Copyright (c) 2001-2020 by cisco Systems, Inc.
* All rights reserved.
* */
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_blob.c
No license file was found, but licenses were detected in source scan.

/*
* msg_routemap.c -- Message system definitions for Route-map
* 
* Copyright (c) 2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
* *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/msg_routemap.c
No license file was found, but licenses were detected in source scan.

/*
* $Id$
* $Source$
* *------------------------------------------------------------------
*/

/*
* If its not a per-user distribute-list, we have to configure the
* route-map for pflist_def too - its used to restore default when
* a per-user distribute-list is un-configured as well as for
* nvgen purposes. All this mess, only for the interface specific
* version.
*/

/*
* This command is only valid for ipv4 and nsap AFs in BGP.
* However it is accepted for other BGP AFs
* for backwards compatibility. However, no action
* is taken for these AFs and it is not nvgen'ed
* either. Check out cfg_router_default.h for
* more details.
*/
/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * Exit from BGP Address Family mode.
 *
 * Sept 1998, Bob Thomas
 *
 * All rights reserved.
 *------------------------------------------------------------------
 */

/*
 *------------------------------------------------------------------
 * protofltr_debug.h -- Routing protocol filter manager debug flag
 *
 * Jan 2006, Mercia Zheng
 *
 * Copyright (c) 2005-2008 by Cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */

/*
 *------------------------------------------------------------------
 * cfg_router_maximum-paths.h
 *
 * 22-May-2016, Les Ginsberg
 *
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 */
Open Source Used In Cat9K 17.7.1

/*
 * iprouting_debug.h -- Debugging declarations for IP routing
 * May 1993, John Bashinski
 * Copyright (c) 1993-2010 by Cisco Systems, Inc.
 * All rights reserved.
 */

/*
 * iprouting_parser_linkpoints.c - iprouting parser linkpoint defs.
 * April, 2005
 * Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 */

/*
 * CFG_ROUTER_OFFSET.H
 * All Rights Reserved
 */

/* $Id: cfg_router_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp $ */
/* $Source: /release/112/cvs/Xsys/cfg_router_offset.h,v $ */
/* CFG_ROUTER_OFFSET.H */
/* All Rights Reserved */
/* $Log: cfg_router_offset.h,v $ */
/* Revision 3.3.20.4 1996/09/04 23:46:26 mikel */
* CSCdi65889: offset-list doesn't work for EIGRP
  * Branch: California_branch
  * Re-enable offset-list command as well as adding offset-list out support,
  * and fix offset-list to work with access-lists
  *
  * Revision 3.3.20.3 1996/08/12 16:03:48 widmer
  * CSCdi65725: Create Eolns macro that defaults csb->which to 0
  * Branch: California_branch
  * Add Eolns and Nvgenns macro that default csb->which to 0
  * Remove hidden keyword help strings
  *
  * Revision 3.3.20.2 1996/05/04 01:21:23 wilber
  * Branch: California_branch
  *
  * Constrained Multicast Flooding
  * - Define MOSPF hello option bit.
  *
  * Revision 3.3.20.1 1996/04/09 05:54:35 mikel
  * CSCdi49628: EIGRP ignores outgoing offset-list
  * Branch: California_branch
  * disable offset-list command from eigrp router config
  *
  * Revision 3.3 1996/02/01 23:33:59 widmer
  * CSCdi45325: Change Keyword/Set to use Keyword_Id macro
  *
  * Revision 3.2 1995/11/17 17:32:19 hampton
  * Remove old entries from the RCS header logs.
  *
  * Revision 3.1 1995/11/09 12:05:53 shaker
  * Bump version numbers from 2.x to 3.x.
  *
  * Revision 2.1 1995/07/01 12:15:58 tli
  * CSCdi36508: Rationalize parser file placement, part I
  * Rationalize iprouting
  *
  * Revision 2.1 1995/06/07 22:12:58 hampton
  * Bump version numbers from 1.x to 2.x.
  *
  *------------------------------------------------------------------
  * $Endlog$
  */

  Found in path(s):
  * /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h

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

/*
*---------------------------------------------------------------
* network_constants.h -- General Networking Constants
* 
* June 2002, interest-idb
* 
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
* 
*---------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/network_constants.h
No license file was found, but licenses were detected in source scan.

/*-----------------------------------------------
* routing_context_chain.c
* 
* Parse chain file for routing context support.
* 
* March 2009, Derek Yeung
* 
* Copyright (c) 2009, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context_chain.c
No license file was found, but licenses were detected in source scan.

/*
*-----------------------------------------------
* IOS prefix list support.
* 
* March 2005, Sarath Chandran
* 
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_ios.c
No license file was found, but licenses were detected in source scan.
/*
 * --------------------------------------------
 * routemap_debug_flags.h -- Routemap debugging support
 * *
 * July 1998, Wilber Su
 * *
 * All rights reserved.
 * --------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.h
No license file was found, but licenses were detected in source scan.

/*
 * --------------------------------------------
 * cfg_router_auto_summary.h
 * *
 * October 1993
 * *
 * Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.
 * All rights reserved.
 * *
 * Supports the router subcommand "auto-summary". Configures auto aggregation
 * of routing information to the network number level.
 * --------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h
No license file was found, but licenses were detected in source scan.

##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##
## syntax: 1.0.0

# iprouting_cmn meta-source files
group: iprouting_cmn-generic
enum:
  iprouting_cmn/include/enum/iprouting_api.enum

reg:
  iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
  iprouting_cmn/include/reg/iprouting_registry.reg
  iprouting_cmn/include/reg/lfafrr_registry.reg
  iprouting_cmn/include/reg/route_map_registry.reg
  iprouting_cmn/include/reg/router_af_actions_registry.reg
  iprouting_cmn/include/reg/router_topology_registry.reg
  iprouting_cmn/include/reg-routing_context_registry.reg

# end of group: iprouting_cmn-generic

# iprouting_cmn source files

group: iprouting_cmn
{
  includes:
    ../generic/routing/iprouting_cmn/include
    $(COMPONENT_ROOT)/routing/iprouting_cmn/include
    $(COMPONENT_ROOT)/routing/iprouting_cmn/internal_inc
    $(COMPONENT_ROOT)/routing/iprouting_cmn/src
    $(COMPONENT_ROOT)/routing
    $(COMPONENT_ROOT)/posix/include
    $(IOS_SYSROOT)/ion/include
    $(IOS_SYSROOT)/crypto/ca
    $(IOS_SYSROOT)/crypto/ca/certcinc
    $(IOS_SYSROOT)/crypto/ca/bsafeinc
    $(IOS_SYSROOT)/crypto/ca/provider/include
defines: CRYPTOv5 CERTCv5
cflags: -Wno-parentheses -Wno-uninitialized

sub: ion_iprouting_cmd_registry
{
  context: os==ion
  contains:
    iprouting_cmn/src/ion_iprouting_cmd_registry.c
}

sub: iprouting_blob
{
  contains:
    iprouting_cmn/src/ip_routing.c
    iprouting_cmn/src/ip_stats.c
    iprouting_cmn/src/iprouting_actions.c
    iprouting_cmn/src/iprouting_chain.c
    iprouting_cmn/src/iprouting_debug.c
    iprouting_cmn/src/iprouting_init_blob.c
    iprouting_cmn/src/iprouting_setup.c
}
iprouting_cmn/src/protofltr_debug.c
iprouting_cmn/src/route3_blob.c
iprouting_cmn/src/routemap_debug.c
iprouting_cmn/src/router_af_chain.c
iprouting_cmn/src/router_topology_chain.c
iprouting_cmn/src/routing_context_chain.c
}
sub: iprouting_cmn
{
contains:
  iprouting_cmn/include/msg_iproute.rc
  iprouting_cmn/src/iprouting_cmn.c
}
sub: iprouting_common_blob
{
contains:
  iprouting_cmn/src/ip_prefixlist_chain.c
  iprouting_cmn/src/policylist_blob.c
  iprouting_cmn/src/route_map_blob.c
  iprouting_cmn/src/routemap_track.c
}
sub: iprouting_common_ionblob
{
context: os==ion
contains:
  iprouting_cmn/src/ip_prefixlist_ionblob.c
  iprouting_cmn/src/route_map_ionblob.c
}
sub: iprouting_common_ionized
{
context: os==ion
contains:
  iprouting_cmn/src/ip_prefixlist_ionized.c
  iprouting_cmn/src/policylist_ionized.c
  iprouting_cmn/src/route_map_ionized.c
}
sub: iprouting_common_misc
{
contains:
  iprouting_cmn/src/ip_prefixlist.c
  iprouting_cmn/src/msg_routemap.c
  iprouting_cmn/src/policylist.c
  iprouting_cmn/src/route_map.c
  iprouting_cmn/src/routetag_list.c
}
sub: iprouting_common_nbcmn
{
contains:
iprouting_cmn/src/route_map NBcmn.c
}
sub: iprouting_common_nonblob
{
contains:
iprouting_cmn/src/ip_prefixlist_ios.c
iprouting_cmn/src/policylist_ios.c
}
sub: iprouting_init_ios
{
contains:
iprouting_cmn/src/iprouting_init_ios.c
}
sub: iprouting_ionblob
{
context: os==ion
contains:
iprouting_cmn/src/iprouting_init_ionblob.c
iprouting_cmn/src/iprouting_parse_blob.c
iprouting_cmn/src/router_af_parse_blob.c
}
sub: iprouting_ionized
{
context: os==ion
contains:
iprouting_cmn/src/iprouting_init_ionized.c
iprouting_cmn/src/route3_ionized.c
}
sub: iprouting_misc
{
contains:
iprouting_cmn/src/routemap_api.c
iprouting_cmn/src/routemap_api_util.c
iprouting_cmn/src/routemap_internal.c
}
sub: iprouting_nonblob
{
contains:
iprouting_cmn/src/iprib_api_svr.c
iprouting_cmn/src/iprouting_init.c
iprouting_cmn/src/iprouting_stats.c
iprouting_cmn/src/protofltr.c
iprouting_cmn/src/route1.c
iprouting_cmn/src/route2.c
iprouting_cmn/src/route3.c
iprouting_cmn/src/router_af_parse.c
iprouting_cmn/src/router_topology_parse.c
}
sub: iprouting_parser
{
    contains:
        iprouting_cmn/src/iprouting_parser_linkpoints.c
}
sub: iprouting_registry
{
    contains:
        iprouting_cmn/src/iprouting_registry.c
}
sub: ipv4_subsys
{
    contains:
        iprouting_cmn/src/ipv4_subsys.c
}
sub: lfafr_registry
{
    contains:
        iprouting_cmn/src/lfafr_registry.c
}
sub: route_map_globs
{
    contains:
        iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
    contains:
        iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{
    contains:
        iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
    context: os==ion
    contains:
        iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
    contains:
        iprouting_cmn/src/routemap_ios.c
        iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain
{ contains:
    iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_le_ipc
{
    context: os==ios
    contains:
        iprouting_cmn/src/route_map_globs.c
        iprouting_cmn/src/routemap_api.c
        iprouting_cmn/src/routemap_api_util.c
        iprouting_cmn/src/routemap_debug.c
        iprouting_cmn/src/routemap_internal.c
        iprouting_cmn/src/routemap_ios_chain.c
        iprouting_cmn/src/routetag_list.c
}
sub: router_af_actions_registry
{
    contains:
        iprouting_cmn/src/router_af_actions_registry.c
}
sub: router_topology_registry
{
    contains:
        iprouting_cmn/src/router_topology_registry.c
}
sub: routing_context
{
    contains:
        iprouting_cmn/src/routing_context.c
}
sub: routing_context_registry
{
    contains:
        iprouting_cmn/src/routing_context_registry.c
}

# end of group: iprouting_cmn

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/content.lst
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_routemap_set_policy.h,v 3.3.52.1 1996/05/21 09:53:12 thille Exp $ */
/* $Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_policy.h,v $ */
*------------------------------------------------------------------
* cfg_routemap_set_policy.h -- Policy specific route map clauses
*
/* All rights reserved. */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map_registry.h
No license file was found, but licenses were detected in source scan.

/* */

* IP routing table flap statistics collection facility.
* 
* Nov 1996, Ravi Chandra
* 
* All rights reserved.
* */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_stats.c
No license file was found, but licenses were detected in source scan.

/* $Id: rouource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $ */

* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $ */

* route_map.c -- Route map support routines.
* 
* 23-January-1993
* 
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
* */

* $Log: route_map.c,v $ */

* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
* CSCdi57006: route-map in configuration are stored/displayed in reverse order
* 
* Branch: California_branch
* 
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
* Remove gratuitous casting. [CSCdi61655]
* 
* Branch: California_branch
* 
* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra
* CSCdi59547: Routemap: %SYS-4-REEXP: NULL string parameter error
* 
* Branch: California_branch
* - do not pass null path to route_map_match_aspath

Open Source Used In Cat9K 17.7.1 6134
* Revision 3.4.10.8  1996/06/03  23:24:12  ahh
* CSCdi59119:  IP: NAT should support named access-lists
* And extended access-lists and non-contiguous address pools.
* Branch: California_branch
*
* Revision 3.4.10.7  1996/05/04  01:22:39  wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.4.10.6  1996/04/16  19:02:21  rchandra
* CSCdi54830:  IP features commit
* Branch: California_branch
*
* Revision 3.4.10.5  1996/04/05  03:46:40  rchandra
* CSCdi53755:  BGP: flap dampening settings not flexible enough
* Branch: California_branch
* - add route-map support to set flap dampening parameters
*
* Revision 3.4.10.4  1996/04/02  07:29:30  dkatz
* CSCdi52277:  Redistribution metric problems with IGRP/EIGRP
* Branch: California_branch
* Always store canonical metrics scaled for IGRP, and make EIGRP do
* its own scaling internally. Get the scaling right in all three
* places.
*
* Revision 3.4.10.3  1996/03/28  23:59:18  rchandra
* CSCdi52098:  BGP: exact keyword not accepted by route-map in community
* match
* Branch: California_branch
* - fix my silly bug in handling exact community matching
* - limit the range of valid community to 0xFFFF0000
* - fix a cosmetic bug in show ip community-list
*
* Revision 3.4.10.2  1996/03/28  22:28:25  rchandra
* CSCdi52880:  BGP: generate error message for unsupported route-map
* options
* Branch: California_branch
* - generate error message when unsupported route-map option is used
* - tread confederation EBGP neighbors similar to internal neighbors in
* best path selection
* - fix the bug in bgp_compare_med, so that during MED comparison,
* confederation information is skipped properly
* - confederation EBGP paths should be inserted into the IP table with
* internal distance
* - do not consider common-AS neighbors as confederation neighbors
* - during 'clear ip bgp dampening' avoid skipping paths
* - undo the patch to the radix version walker

* Revision 3.4.10.1 1996/03/18  20:29:32  gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California, and took the
* port ready changes with him.
*
* Revision 3.2.26.3 1996/03/16  06:58:25  gstovall
* Branch: DeadKingOnAThrone_branch
* Make the king aware of V111_1_3.
*
* Revision 3.2.26.2 1996/03/07  09:50:41  mdb
* Branch: DeadKingOnAThrone_branch
* cisco and ANSI/POSIX libraries.
*
* Revision 3.2.26.1 1996/02/20  01:04:27  dstine
* Branch: DeadKingOnAThrone_branch
* Sync from DeadKingOnAThrone_baseline_960122 to
* DeadKingOnAThrone_baseline_960213
*
* Revision 3.4 1996/02/24  02:01:55  pst
* CSCdi49774: modularize regexp's for bgp (part 3)
*
* Revision 3.3 1996/02/01  06:06:17  hampton
* Migrate files out of the parser directory. [CSCdi47717]
* Step 2: Change all files which reference the moved parser files to
* point to their new locations.
*
* Revision 3.2 1995/11/17  17:37:13  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09  12:10:35  shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.6 1995/09/25  08:31:19  tli
* CSCdi40960: ISP jumbo patch 2
*
* Revision 2.5 1995/07/06  23:12:39  rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.4 1995/06/23  14:26:05  widmer
* CSCdi36318: multiple route-map commands are not accepted
* Fix route-map command NV generation
*
* Revision 2.3 1995/06/15  15:18:52  widmer
* CSCdi35889: parser transition structures should be static
* Revision 2.2 1995/06/08 08:59:19 tli
* CSCdi35274: route-map test-1 crashes IOS
* - If a route map does not set any routing information, it should be
  * equivalent to not having policy routed the packet.
* - "match length" clauses were having their flag stepped on because the
  * flag update routine didn't know about the clause.
* Revision 2.1 1995/06/07 21:10:53 hampton
* Bump version numbers from 1.x to 2.x.
* 
* $Endlog$
*/

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

/* $Id$
* $Source$
*------------------------------------------------------------------
* config_routemap_set_ip.h -- IP specific route-map clauses
* 
* Mar 1995 Tony Li
* 
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

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

/* $Id$
* $Source$
*------------------------------------------------------------------
* Registry for IP FRR infrastructure
* 
* July 6, 2010 Ahmed Bashandy
* 
* All rights reserved.
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/lfafrr_registry.h
No license file was found, but licenses were detected in source scan.

/✽------------------------------------------------------------------
* router_af_parse.h
* 
* Route Address Family parser functions declarations.
* 
* May 2002, Victor Kamensky
* 
* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/router_af_parse.h
No license file was found, but licenses were detected in source scan.

/✽
* iprouting_parser_macros.h - Routing macros moved out of
*    sys/parser/macros.h
* 
* November, 2004
* 
* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/iprouting_parser_macros.h
No license file was found, but licenses were detected in source scan.

/✽
* routemap_debug.c -- Routemap debugging support
*
* July 1998, Wilber Su
*
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_debug.c
No license file was found, but licenses were detected in source scan.

/*-------------------------------*/
* route_map_globs.c
*
* This file has the route map globals common to blob (for lc images)
* and routing process(for routing images).
* *
* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_globs.c
No license file was found, but licenses were detected in source scan.

/*
*-------------------------------*/
* routemap_ios.c -- Route map support routines that can be shared
* by RP and VIP/LC
* *
* July 1998 Wilber Su
*
* Copyright (c) 1998-2020 by cisco Systems, Inc.
* All rights reserved.
*-------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routemap_ios.c
No license file was found, but licenses were detected in source scan.

/*
*-------------------------------*/
* route_map_ionblob.c -- Route Maps support for ION Blob
* *
* October 2001, Siva Yaragalla
*
* All rights reserved.
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* topo_aware.h - Define multi-topology awareness
* March 2005, Les Ginsberg
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/topo_aware.h
No license file was found, but licenses were detected in source scan.

/*
*------------------------------------------------------------------
* CFG_ROUTER_TOPO_REDUSTRIBUTE.H
* October 2004, Lisa Z Xu
*
* Copied from and modified based on cfg_router_redistribute.h.
* Warning:
* If you modify this file, please also check cfg_router_redistribute.h
* to see if the changes apply to config-router mode as well.
*
* Copyright (c) 2004-2011, 2018-2021 by Cisco Systems, Inc.
* All Rights Reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topo_redistribute.h
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_distribute.h,v 3.3.50.2.6.1 1996/09/12 19:08:19 perryl Exp $*/
*/

Open Source Used In Cat9K 17.7.1  6140
*CFG_ROUTER_DISTRIBUTE.H*

* All Rights Reserved
*
* $Log: cfg_router_distribute.h,v $
* Revision 3.3.50.2.6.1  1996/09/12  19:08:19  perryl
* Branch: Att-branch
* Allow virtual-access interface for distribute-list
*
* Revision 3.3.50.2  1996/08/12  16:03:44  widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.50.1  1996/05/04  01:21:18  wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3  1995/12/04  06:47:13  tli
* CSCdi43559: IP: distribute-list 101 out should work
*
* Revision 3.2  1995/11/17  17:32:10  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09  12:05:34  shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1  1995/07/01  12:15:52  tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1  1995/06/07  22:12:36  hampton
* Bump version numbers from 1.x to 2.x.
*
* $Endlog$
*
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distribute.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * parser_defs_route_map.h
 * Constant definition for route-map command and associated subcommands.
 * All rights reserved.
 *------------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_route_map.h
No license file was found, but licenses were detected in source scan.

/* ip_stats.c - IP for topology aware stats
 *
 * April 2006, Jonsky Hsu
 * Copyright (c) 2006-2010 by cisco Systems, Inc.
 * All rights reserved.
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_stats.c
No license file was found, but licenses were detected in source scan.

/* protofltr.h
 *
 * Routing protocol filter manager Public API definitions
 * Jan 2006, Mercia Zheng
 * Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.
 * All rights reserved.
 */
Open Source Used In Cat9K 17.7.1 6144

/*
 * $Id$
 * $Source$
 * $Log$
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 * $Log$
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h
No license file was found, but licenses were detected in source scan.

/*
 * routemap_debug.h -- Routemap debugging support
 * $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/exec_show_route-map.h,v $
 */
* exec_show_route-map.h
*
* All rights reserved.
*
* Command parsing chain for "show route-map".
*------------------------------------------------------------------
* $Log: exec_show_route-map.h,v $
* Revision 3.2.60.1 1996/08/12 16:04:13 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:33:31 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:29 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:22 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/exec_show_route-map.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
 * route_map_def.h - Route Map Tyep Definition
 *
 * Feb, 2006 Allen Hu
 *
 * Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/route_map_def.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *---------------------------------------------------------------
 * iprouting_parser.h -- IP routing parser API header file
 * April - 2007, Selva Subramanian
 * Copyright (c) 2001-2009 by cisco Systems, Inc.
 * All rights reserved.
 *---------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser.h
No license file was found, but licenses were detected in source scan.

#---------------------------------------------------------------
# iproutingcmn_router_cmd.run-doxygen -- Run-doxygen Configuration File for
# IP Routing Common Router Commands
#
# December 2007, Chi Iong Ansjory
#
# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.
# All rights reserved.
#---------------------------------------------------------------

#---------------------------------------------------------------
# RUN-DOXYGEN CONFIG FILE
#
# The variables defined in this file are used by the run-doxygen script to
# execute doxygen and generate API documentation.
# This file will be sourced by a bourne shell script (/bin/sh)
# and so must follow the bourne shell script syntax
#
# This default configuration file is setup to work for the XOS project.
# If you want to reuse it, you must customize the properties below in order to
# make it work for your project.
#
# For more help contact doxygen-trolls@cisco.com
#---------------------------------------------------------------

# The PROJECT_NAME variable is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.

PROJECT_NAME=IPROUTINGCMN_ROUTER_CMD
# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER=0.1.0.2

# The latest version of doxygen can be picked on the shared storage
# of the XOS/Component Framework team
# This executable can only run on linux 2.6 !!!!
#DOXYGEN=/auto/ios_comp/tools/doxygen-1.5.4/bin/doxygen
# Change this sanity check when doxygen will be supported for other hosts
#host=`uname -s`
#host_version=`uname -r`
#if [ $host != "Linux" ]; then
  #echo "Error: this wrapper can only be executed from Linux"
  #exit
#else
#if [ $host_version \"2.6\" ]; then
  #echo "Error: this wrapper requires Linux 2.6 or higher"
  #exit
#else
  #
  # The location of the latex suite, this is needed only if the PDF
  # generation option is used (-f)
  # This binary is also only available on linux 2.6
  #
  #LATEX_PATH=/auto/ios_comp/tools/tetex/bin/i686-pc-linux-gnu
  #LATEX_PATH=/usr/bin

  #-------------------------------------------------------------------------------------------
  # Use this variable to specify one or more wildcard pattern (like *.cpp
  # and *.h) to filter out the source-files in the directories.

  FILE_PATTERNS="ip_stats.h iprouting_debug.h router_af_actions_registry.mrg"

  # Exclude all internal defines (defines used to guard against multiple
  # inclusions of the same header file)
  EXCLUDE_SYMBOLS="_*_H__ _reg_add* _reg_delete* service_* _reg_used*_
  _reg_add* _reg_inv_* _reg_svr* _registry_* registry* REG_ELOG * _GEN_ID_
  *_DEFINED *_argt *_res_
  bgp* ospf* debug* route_debug* igrp* ipcache* ipproc* ip_mobile* netred* \
  iprouting_acl DEBUG_ROUTING_PROT MISC_DEBUG_VARS \
  DEBUG_ROUTING* ALTP_BGF* __DEBUG_FLAGS* \
  iprouting_debug_init iprouting_set_debug_array iprouting6_debug_list_command \
  iprouting_debug_list_command iprouting_nsap_debug_list_command \n  iprouting_debug_acl_notify \"
reg_invoke_address_family_action_get_entries \reg_invoke_address_family_action_nvgen_exit"

# When all symbols in a project start with a common prefix, by default all
# symbols will be put under the same header in the alphabetical index.
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that
# should be ignored while generating the index headers. This will allow
# to spread the symbol index more evenly.

IGNORE_PREFIX="xos_ XOS_”

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL=YES

# If the EXTRACT_STATIC tag is set to YES all static members of a file
# will be included in the documentation.

EXTRACT_STATIC=YES

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all
# undocumented members of documented classes, files or namespaces.
# If set to NO (the default) these members will be included in the
# various overviews, but no documentation section is generated.
# This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS=NO

#------------------------------------------------------------------------------------------
# VARIABLES RELATED TO DOXYGEN OUTPUT

# This is the root of the destination folder (local variable)
# Note that the archive area and the workspace area do not have to share the
# same destination root.
DST_BASE=/auto/ios_comp/iprouting_cmn

# This is the URL through which the DST_BASE folder can be accessed
# from the intranet. This URL depends on the location of the storage.
# Contact IT to find out the correct URL.
# (Local variable)
URL_DST_BASE=http://sjc-filer29a-web/projects/ios_comp/iprouting_cmn

# ---- WORSPACE AREA
# Relative path (to DST_BASE) - used by OUTPUT_WORKSPACE (local variable)
WORKSPACE_FOLDER=api-docs
# This is the full pathname of the root under which all normal output folders will be located
OUTPUT_WORKSPACE=$DST_BASE/$WORKSPACE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_WORKSPACE=$URL_DST_BASE/$WORKSPACE_FOLDER

# ---- ARCHIVE AREA
# Relative path (to DST_BASE) - used by OUTPUT_ARCHIVE (local variable)
ARCHIVE_FOLDER=archive/xoslib

# This is the full pathname of the root under which all archive output folders will be located
OUTPUT_ARCHIVE=$DST_BASE/$ARCHIVE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_ARCHIVE=$URL_DST_BASE/$ARCHIVE_FOLDER

#---------------------------------------------------------------------------
# VARIABLES RELATED TO DOXYGEN INPUT

# This is the root of the API source code (local variable)
SRC_BASE=/vob/cisco.comp/routing/iprouting_cmn

# This is the location of all the API public header files (or directories)
# In XOS all public header files are located in one directory
API_PUBLIC="$SRC_BASE/include $SRC_BASE/include/reg"
#API_PUBLIC="$SRC_BASE/include"

# This is the location of all the API source code, used with option -all only
# if you want to generate doxygen documentation for the source code
# (only useful for internal code review)
# Do not put the content of API_PUBLIC as it is added automatically
API_ALL="$SRC_BASE/shared $SRC_BASE/ios $SRC_BASE/iox $SRC_BASE/linux"

# The EXAMPLE_PATH tag can be used to specify one or more files or
directories that contain example code fragments that are included (see
# the @example command).
EXAMPLE_PATH=$SRC_BASE/test/src

# The IMAGE_PATH tag can be used to specify one or more
directories that contain image that are included in the documentation (see
# the @image command).
# This is only used/relevant if you have images in your API documentation.
IMAGE_PATH=$DST_BASE/api-docs-images
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/docs/iproutingcmn_router_cmd.run-doxygen

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

/* $Id: exec_clear_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp $
 * $Source: /release/111/cvs/Xsys/ip/exec_clear_ip_prefixlist.h,v $
 *----------------------------------------------------------
 * exec_clear_ip_prefixlist.h
 *
 * July 1997, Enke Chen
 *
 * All rights reserved.
 *----------------------------------------------------------
 * $Log: exec_clear_ip_prefixlist.h,v $
 * Revision 3.1.2.1 1997/12/17 21:36:58 enkechen
 * CSCdj61356: Prefix-list - facility for efficient route filtering
 * Branch: FIB_branch
 *
 * Revision 3.1 1997/12/17 01:46:34 enkechen
 * Start with the new file.
 *
 *----------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_prefixlist.h

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

/*
 *PARSER_DEFS_ROUTER.H
 *
 * $Id: parser_defes_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/parser_defes_router.h,v $
 *
 * Copyright (c) 1985-2020 by cisco Systems, Inc.
 * All rights reserved.
 *
 *----------------------------------------------------------
 * $Log: parser_defes_router.h,v $
 * Revision 3.1.40.2 1996/07/30 06:56:06 rchandra
 * CSCdi64489: BGP: private-AS number cannot be removed from AS-path
 * Branch: California_branch
 * - add 'neighbor x.x.x.x remove-private-AS' command.
 * - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration'
* command (CSCdi64487)

* Revision 3.1.40.1 1996/04/16 19:02:10 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch

* Revision 3.1 1996/02/01 04:58:48 hampton
* Migrate files out of the parser directory. [CSCdi47717]
* Step 1: Create copies of the files to be moved in their new location.

* Revision 3.2 1995/11/17 18:52:17 hampton
* Remove old entries from the RCS header logs.

* Revision 3.1 1995/11/09 12:56:05 shaker
* Bump version numbers from 2.x to 3.x.

* Revision 2.4 1995/08/28 21:14:47 rchandra
* CSCdi39436: BGP: Allow conditional unsuppression of suppressed routes
* - add 'neighbor x.x.x.x unsuppress-map <map>' command

* Revision 2.3 1995/07/06 23:11:21 rchandra
* CSCdi36759: BGP: Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.

* Revision 2.2 1995/06/30 20:24:40 rchandra
* CSCdi36620: BGP requires IBGP neighbors to be fully meshed

* Revision 2.1 1995/06/07 22:31:08 hampton
* Bump version numbers from 1.x to 2.x.

*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* iprouting_blob_UNDEF.c -- undefined symbols from blob when
* routing subsytems are pulled out
*
* October, 2002 Phil Winterfield
*
* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
Open Source Used In Cat9K 17.7.1 6152

* $Log$
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_blob_undef.c
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
* $Log$
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/iprouting_commands.h
No license file was found, but licenses were detected in source scan.

/* $Id: ip_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi $
* $Source: /view/vkoshi-comp_routin_rel5.rel4_1_1_19,2460.ss.comp1.port/vob/ss.comp1/routing/iprouting_cmn/src/ip_prefixlist.c,v $
* $Log:
* $Endlog$
*/

* Generic prefix list support.
*
* Copyright (c) 1997, Enke Chen
*
* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.
* All rights reserved.

* $Log: ip_prefixlist.c,v $
* Revision 1.1 2011/02/02 21:47:40 vkoshi
* checkin by port_commit
*
* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen
* CSCdj88889: Prefix-list: sho ip prefix-list summ does not pause
* Branch: FIB_branch

Open Source Used In Cat9K 17.7.1 6152
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:32 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen
* CSCdj77190: Prefix-list: mishandling of long prefix-list names
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*---------------------------------------------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_network.h,v 3.2.60.1 1996/08/12 16:03:46 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_network.h,v $
*---------------------------------------------------------------
* C F G _ R O U T E R _ N E T W O R K . H
* 
* All Rights Reserved
*---------------------------------------------------------------
* $Log: cfg_router_network.h,v $
* Revision 3.2.60.1 1996/08/12 16:03:46 widmer
* CSCdj65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:32:18 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:49 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/09/25 08:30:52 tli
* CSCdi4960: ISP jumbo patch 2
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:56 hampton
* Bump version numbers from 1.x to 2.x.
*
*---------------------------------------------------------------
* $Endlog$
*
/Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_network.h
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp $ */
/* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_redistribute.h,v $ */
*------------------------------------------------------------------
* CFG_ROUTER_REDISTRIBUTE.H
*
* Warning:
* If you modify this file, please also check cfg_router_topo_redistribute.h
* to see if the changes apply to config-router-topo mode as well.
*
* All Rights Reserved
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_redistribute.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------------------------
* route3_ionized.c
* *
* ION specific route3.c parser functions.
* *
* March 2002, Victor Kamensky
*/
*/
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3_ionized.c
No license file was found, but licenses were detected in source scan.

/* $Id$ */
* $Source$ *------------------------------------------------------------------
* iprouting_init_blob.c -- Partner file (in blob) for iprouting_init.c
* 27-August-2001, Fan Kong
* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log$ */
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id: exec_show_protocols.h,v 3.3.20.1 1996/08/12 16:04:12 widmer Exp $ */
* $Source: /release/112/cvs/Xsys/iprouting/exec_show_protocols.h,v $ *------------------------------------------------------------------
* EXEC_SHOW_PROTOCOLS.H
*
* All Rights Reserved
*------------------------------------------------------------------
* $Log: exec_show_protocols.h,v $ * Revision 3.3.20.1 1996/08/12 16:04:12 widmer * CSCdi65725: Create Eolns macro that defaults csb->which to 0 * Branch: California_branch * Add Eolns and Nvgenns macro that default csb->which to 0 * Remove hidden keyword help strings * * Revision 3.3 1996/01/29 07:08:56 hampton * Remove command number arguments passed to parse routines that only * perform a single function. [CSCdi47717] *
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h
No license file was found, but licenses were detected in source scan.

/* c C S c d i 3 6 5 0 8 :  R a t i o n a l i z e p a r s e r f i l e p l a c e m e n t , p a r t I */
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:21 hampton
* Bump version numbers from 1.x to 2.x.
* *
*------------------------------------------------------------------
* $Endlog$
*/

* All Rights Reserved
*------------------------------------------------------------------

* All Rights Reserved
*------------------------------------------------------------------

C C S c d i 4 5 3 2 5 :  C h a n g e K e y w o r d / S e t t o u s e K e y w o r d _ I d m a c r o
*
* Revision 3.2 1995/11/17 17:32:14 hampton
* Remove old entries from the RCS header logs.
* *
* Revision 3.1 1995/11/09 12:05:42 shaker
* Bump version numbers from 2.x to 3.x.
* *
* Revision 2.1 1995/07/01 12:15:55 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting

* Revision 2.1 1995/06/07 22:12:48 hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_neighbor.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
*------------------------------------------------------------------
* CFG_ROUTER_DEFAULTS.H
*
* All Rights Reserved
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_default.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* routemap_api_util.c -- Dynamic routemap API utility functions.
*/
*/

*-----------------------------------------------------------
* route_map_blob.c -- Route Map Subsystem
*
* Aug 2001, Siva Yaragalla
*
* Copyright (c) 2001-2012, 2014-2018 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $
*------------------------------------------------------------------
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log: ip_prefixlist.h,v $
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:34 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen
* CSCdj77191: Reduce several chunk size parameters to save memory
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:32 enkechen
* Start with the new file.
* 
*------------------------------------------------------------------
* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist.h
No license file was found, but licenses were detected in source scan.

/*---------------------------------------------*/
* router_topology_registry.c
* Router topology registry.
* Sept 2004, Mercia Zheng
* Copyright (c) 2004-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*---------------------------------------------*/
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_topology_registry.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp $*/
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_distance.h,v $
*---------------------------------------------
* CFG_ROUTER_DISTANCE.H
* The bgp version must come before the weight version so that both NVGEN
* and normal processing happen correctly.
* All rights reserved.
*---------------------------------------------
* $Log: cfg_router_distance.h,v $
* Revision 3.2.60.1 1996/05/04 01:21:16 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
* Revision 3.2 1995/11/17 17:32:05 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:29 shaker
* Bump version numbers from 2.x to 3.x.
* Revision 2.1 1995/07/01 12:15:50 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting

* Revision 2.1 1995/06/07 22:12:30 hampton
* Bump version numbers from 1.x to 2.x.

* $Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_distance.h
No license file was found, but licenses were detected in source scan.

/*
* ---------------------------------------------------------------------
* protofltr_debug.c - Debug functions for protocol filter manager
* *
* Mercia Zheng, Jan 2006
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
* ---------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug.c
No license file was found, but licenses were detected in source scan.

/*
* ---------------------------------------------------------------------
* cfg_router_topology.h - router topology configuration mode command
* *
* Sept 2004, Mercia Zheng
*
* All rights reserved.
* ---------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* Registry for routing context for RP and LC common code.
* September 2009, Derek Yeung
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routing_context_registry.h
No license file was found, but licenses were detected in source scan.

/*exec_routing_context.h
*------------------------------------------------------------------
* This file defines the routing-context command syntax.
* March 2009, Derek Yeung
* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/exec_routing_context.h
No license file was found, but licenses were detected in source scan.

/* $Id$
* $Source$
*------------------------------------------------------------------
* routing_context_registry.c
* September 2009, Derek Yeung
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
No license file was found, but licenses were detected in source scan.

/*
 *   protofltr_debug_flags.h -- Protofltr manager debug flags declarations
 *   Jan 2006, Mercia Zheng
 *   Copyright (c) 2005-2008 by Cisco Systems, Inc.
 *   All rights reserved.
 */

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

/*
 * routemap_internal.c -- Internal functions of routemap code.
 * May 2003, Tanya Shastri
 * All rights reserved.
 */

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

/*
 */

* IP routing specific parsing functions.

* August 1994, Bruce Cole

exit - exit from route-map configuration mode

All Rights Reserved

Revision 3.2 1995/11/17 17:31:42 hampton
* Remove old entries from the RCS header logs.
*  
Revision 3.1 1995/11/09 12:05:03 shaker
* Bump version numbers from 2.x to 3.x.
*  
Revision 2.1 1995/07/01 12:15:44 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*  
Revision 2.1 1995/06/07 22:12:09 hampton
* Bump version numbers from 1.x to 2.x.
*  
-----------------------------------------------
* $Endlog$
*/

Found in path(s):
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_exit.h
No license file was found, but licenses were detected in source scan.

/*
*-----------------------------------------------
* routemap_track.c -- Route map support for tracking
*                        Functions which run on RP (not VIP).
*  
March 2003 Shyan Wignarajah
*  
Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------
*/
/* $Id: iprouting_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp $ */
* $Source: /release/112/cvs/Xsys/iprouting/iprouting_setup.c,v $
*------------------------------------------------------------------------------
* IP Routing setup commands
*
* May 1993, Robert Widmer
*
* All rights reserved.
*
*------------------------------------------------------------------------------
* $Log: iprouting_setup.c,v $
* Revision 3.4.4.1  1996/06/28  01:21:03  snyder
* CSCdi61601:  fix some char * that should have been char [] in iprouting
* Branch: California_branch
*
* You get space back for the pointer
* You get space back for each reference
* You get bytes out of data space
*
* Revision 3.4  1996/03/09  22:56:04  widmer
* CSCdi47890:  HTTP server doesn't work
* Add HTTP server
*
* Revision 3.3  1995/11/28  03:58:38  widmer
* CSCdi44175:  Add setup_printf to replace sprintf in setup code
*
* Revision 3.2  1995/11/17  17:34:53  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09  12:08:42  shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1  1995/06/07  21:07:55  hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------------------
* $Endlog$
*/

Open Source Used In Cat9K 17.7.1 6168
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * \cfg_routemap_match_ip.h -- IP specific route-map clauses
 *------------------------------------------------------------------
 * March 1995 Tony Li
 *------------------------------------------------------------------
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match_ip.h

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

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * \cfg_route_default.h
 *------------------------------------------------------------------
 * September 2016, Yingzhen Qu
 *------------------------------------------------------------------
 * Copyright (c) 2016 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_default.h

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

/* routemap_api.h -- Dynamic routemap API definitions.
 *------------------------------------------------------------------
 * May 2003, Tanya Shastri
 *------------------------------------------------------------------
 * All rights reserved.
 *------------------------------------------------------------------

Open Source Used In Cat9K 17.7.1 6169
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routemap_api.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * iprouting_init_ionized.c - ION specific IP Routing Protocol support.
 * *
 * September 2001, Chandra Appanna
 *
 * Copyright (c) 2001-2012 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Log$
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ionized.c
No license file was found, but licenses were detected in source scan.

/*
 *
 *------------------------------------------------------------------
 * Generic route tag list support.
 * *
 * June 2011, Karthik Subramaniam
 *
 * Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
 * All rights reserved.
 *------------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routetag_list.h
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *------------------------------------------------------------------
 * IP routing clear commands
 * *
 * May 1993, Robert Widmer

Open Source Used In Cat9K 17.7.1 6170
/*
 * All rights reserved.
 *
 *------------------------------------------------------------------
 *
 * $Log$
 *------------------------------------------------------------------
 *
 */

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

/* $Id: cfg_router_metric.h,v 3.2 1995/11/17 17:32:13 hampton Exp $ *
 * Source: /swtal/cherf.111/ios/sys/iprouting/cfg_router_metric.h,v *
 *------------------------------------------------------------------
 *
 * All Rights Reserved
 *------------------------------------------------------------------
 *
 * Revision 3.2  1995/11/17  17:32:13  hampton
 * Remove old entries from the RCS header logs.
 *
 * Revision 3.1  1995/11/09  12:05:41  shaker
 * Bump version numbers from 2.x to 3.x.
 *
 * Revision 2.1  1995/07/01  12:15:54  tli
 * CSCdi36508: Rationalize parser file placement, part I
 * Rationalize iprouting
 *
 * Revision 2.1  1995/06/07  22:12:46  hampton
 * Bump version numbers from 1.x to 2.x.
 *
 *------------------------------------------------------------------
 *
 */

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

/* $Id: cfg_router_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp $ *
 * Source: /release/112/cvs/Xsys/iprouting/cfg_router_timers.h,v *
 *------------------------------------------------------------------
 *
 */

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

/*
   *------------------------------------------------------------------
   * CFG ROUTER_BFD.H
   *
   * Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.
   * All Rights Reserved
   *------------------------------------------------------------------

   */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router_bfd.h
No license file was found, but licenses were detected in source scan.

/*
   *------------------------------------------------------------------
   * router_topology_registry.h
   *
   * Router topology registry.
   *
   * Sept 2004, Mercia Zheng
   *
   * Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
   * All rights reserved.
   *------------------------------------------------------------------

   */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/router_topology_registry.h
No license file was found, but licenses were detected in source scan.

/* $Id$
   * $Source$
   *------------------------------------------------------------------
   * iprouting_debug.c -- Debugging routines for IP routing
   *
   * May 1993, John Bashinski
   *
   * Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.
   * All rights reserved.
   *------------------------------------------------------------------
   * $Log$
   *------------------------------------------------------------------
   * $Endlog$

   */

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

BEGIN IPROUTING_API

# Enumeration of the possible reasons for disabling routing on an interface
# Note, string length of the LONG description, should be <= 16 chars,
# and contain nothing but alphanumerical characters and _
ENUM routing_disable_flag_t

ITEM ROUTING_DISABLE_FLAG_INT_IF
LONG "Internal_IF"
END ITEM

END ENUM

END

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/enum/iprouting_api.enum
No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------------------------
 * route3_blob.c
 *
 * IOS and blob specific route3.c parser functions.
 *
 * March 2002, Victor Kamensky
 *
 * Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-------------------------------------------------------------
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route3_blob.c
No license file was found, but licenses were detected in source scan.

/* $Id$
 * $Source$
 *-------------------------------------------------------------
 * cfg_routemap_match.h
 *
 * Process route-map match subcommands.
 *
 * All rights reserved.
 *-------------------------------------------------------------
 * $Log$
 *-------------------------------------------------------------
 * $Endlog$
 */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match.h
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp $
 * $Source: /release/112/cvs/Xsys/iprouting/cfg_router.h,v $
 *-------------------------------------------------------------
 * CFG_R O U T E R . H
 *
 * Enter router subcommand mode
 *
 * All rights reserved.
 *-------------------------------------------------------------
$Log: cfg_router.h,v $
* Revision 3.2.60.2 1996/08/12 16:03:38 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenm macro that default csb->which to 0
* Remove hidden keyword help strings
* 
* Revision 3.2.60.1 1996/04/15 21:17:43 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* Branch: California_branch
* 
* Revision 3.1 1995/11/09 12:05:20 shaker
* Bump version numbers from 2.x to 3.x.
* 
* Revision 2.1 1995/07/01 12:15:46 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
* 
* Revision 2.1 1995/06/07 22:12:17 hampton
* Bump version numbers from 1.x to 2.x.
* 
*------------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_router.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* routing_context.c
* 
* This file has global definitions for routing context support
* common to blob and iprouting processes.
* 
* March 2009, Derek Yeung
* 
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routing_context.c
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $*/
/* $Source: /swtal/cherf.111/ios/sys/iprouting/cfg_routemap_match_policy.h,v $*/
/*------------------------------------------------------------------*/
/* cfg_routemap_match_policy.h -- Route map match clauses for policy */
/* routing.*/
/* Mar 1995 Tony Li*/
/* All rights reserved.*/
/*------------------------------------------------------------------*/
/* $Log: cfg_routemap_match_policy.h,v $*/
/* Revision 3.3 1995/11/28 19:50:34 widmer*/
/* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func*/
/* Revision 3.2 1995/11/17 17:31:48 hampton*/
/* Remove old entries from the RCS header logs.*/
/* Revision 3.1 1995/11/09 12:05:10 shaker*/
/* Bump version numbers from 2.x to 3.x.*/
/* Revision 2.3 1995/06/21 18:16:00 widmer*/
/* CSCdi36227: Fix parse chain alternates*/
/* Revision 2.2 1995/06/15 15:18:44 widmer*/
/* CSCdi35889: parser transition structures should be static*/
/* Revision 2.1 1995/06/07 21:05:32 hampton*/
/* Bump version numbers from 1.x to 2.x.*/
/*------------------------------------------------------------------*/
/* $Endlog$*/
/*/ 

Found in path(s):
*/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmnm/include/cfg_routemap_match_policy.h*/
No license file was found, but licenses were detected in source scan.

/*/ 
/* Generic tag list support.*/
/* June 2011, Karthik Subramaniam*/
/*
Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
All rights reserved.

Found in path(s):
/opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/routetag_list.c
No license file was found, but licenses were detected in source scan.

route3_parse.h
Route parser functions declarations.
March 2002, Victor Kamensky

route_map_nbcmn.c -- Route map support non-Blob common routines
October 2001, Siva Yaragalla

ip_prefixlist_chain.c - Parse chains for IP Prefix Lists
August 2001, Siva Yaragalla
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist_chain.c
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------*/
/* routing_context.h - Routing Context library API
 * March 2009, Derek Yeung
 * Copyright (c) 2009 by cisco Systems, Inc.
 * All rights reserved.
 *-------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/routing_context.h
No license file was found, but licenses were detected in source scan.

/*-------------------------------------------*/
/* route_map_registry.c
 * July 2001, Siva Yaragalla
 * Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_registry.c
No license file was found, but licenses were detected in source scan.

/*
 * routemap_internal.h
 * Route map support data structures.
 * To be included only by routemap code.
 * All rights reserved.
 */

Found in path(s):
*------------------------------------------------------------------
* May 1994, Derek Yeung
* All rights reserved.
* IP routing interface commands that must be after the encapsulation command
* in NV order.
*------------------------------------------------------------------
*$Log: cfg_int_ip2_routing.h,v$
* Revision 3.2.60.1 1996/08/12 16:03:24 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
* Revision 3.2 1995/11/17 17:31:23 hampton
* Remove old entries from the RCS header logs.
* Revision 3.1 1995/11/09 12:04:31 shaker
* Bump version numbers from 2.x to 3.x.
* Revision 2.2 1995/08/04 03:07:45 dstine
* CSCdi37681: Need event logging for EIGRP
* Revision 2.1 1995/07/01 12:15:32 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
* Revision 2.1 1995/06/07 22:05:27 hampton
* Bump version numbers from 1.x to 2.x.
*------------------------------------------------------------------
*$Endlog$
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.h
No license file was found, but licenses were detected in source scan.

/*@ $Id$
* $Source$
*------------------------------------------------------------------
* cfg_route_map.h
* Enter route-map subcommand mode
*/
$Id$
*$Source$
Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_route_map.h
No license file was found, but licenses were detected in source scan.

/* $Id: cfg_routemap_set_ip_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp $ */
$Source: /release/112/cvs/Xsys/iprouting/cfg_routemap_set_ip_policy.h,v $
/* cfg_routemap_set_ip_policy.h -- IP policy specific route map clauses */
* Mar 1995 Tony Li
* All rights reserved.
/* $Log: cfg_routemap_set_ip_policy.h,v $ */
Revision 3.3.52.1 1996/06/18  19:06:39  widmer
CSCdi59706: parser lets you set tos/precedence bits forever (input loop)
Branch: California_branch
* Revision 3.3  1995/11/28  19:50:38  widmer
CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
* Revision 3.2  1995/11/17  17:31:53  hampton
* Remove old entries from the RCS header logs.
* Revision 3.1  1995/11/09  12:05:16  shaker
* Bump version numbers from 2.x to 3.x.
* Revision 2.5  1995/08/16  01:01:15  tli
CSCdi38512: Policy: TOS and precedence long help says match instead of set
* Revision 2.4  1995/07/12  07:19:09  tli
CSCdi36426: Policy routing will not disable on an interface
* - Policy routed packets were creating fastswitching cache entries.
* That's not till _next_ release.
* - Add counters to record packet and byte count on a per route map entry
* basis.
- Marketing identified a catastrophic deficiency. Implemented "set ip tos" and "set ip precedence" to cover this deficiency.

* Revision 2.3 1995/06/21 18:16:02 widmer
* CSCdi36227: Fix parse chain alternates

* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static

* Revision 2.1 1995/06/07 21:05:39 hampton
* Bump version numbers from 1.x to 2.x.

*------------------------------------------------------------------
* $Endlog$
* */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/cfg_routemap_set_ip_policy.h
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/* $Id: cfg_router_passive-interface.h,v 3.2.60.1 1996/08/12 16:03:49 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_passive-interface.h,v $
* *------------------------------------------------------------------
* CFG_ROUTER_PASSIVE_INTERFACE.H
* *
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* *------------------------------------------------------------------
* $Log: cfg_router_passive-interface.h,v $
* *------------------------------------------------------------------
* $Endlog$
* */

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_passive-interface.h
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/* $Id: cfg_ip_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/cfg_ip_prefixlist.h,v $
* *------------------------------------------------------------------
* cfg_ip_prefix.h -- IP Prefix List Parser Commands
* *
* June 1997, Enke Chen
* *
* All rights reserved.
*------------------------------------------------------------------
* $Log: cfg_ip_prefixlist.h,v $
* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*------------------------------------------------------------------
* $Endlog$
*/

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* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_prefixlist.h
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/*
*-------------------------------------------------------------------
* route_map_http_ion.c
*
* March, 2003 Phil Winterfield
*
*
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* All rights reserved.
*------------------------------------------------------------------
*/

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* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/makefile
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/route_map_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/router_topology_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/route_map_http_ion.c

tar/iprouting_cmn/include/reg/router_af_actions_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/.signature/makefile
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/router_context_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/reg/lfafrr_registry.reg
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/*
*------------------------------------------------------------------
* policylist_ios.c - IOS stubs for notification routines
*                    in policylist code
* *
* Jun 2005, Tony P. Ambalathingal
* *
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* * All rights reserved.
* *------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_ios.c
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/* $Id$
* $Source$
* *------------------------------------------------------------------
* cfg_router_flash-threshold.h
* *
* January 1998, 2001 Dawn Li
* *
* * All rights reserved.
* *------------------------------------------------------------------
* $Log$
* *------------------------------------------------------------------
* $Endlog$
* *------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_flash-
threshold.h
No license file was found, but licenses were detected in source scan.

/*
* *------------------------------------------------------------------
* ip_prefixlist_ion.h - IP Prefix Lists support for ION
* *
*/
* June 2002, Siva Yaragalla
*
* All rights reserved.
*------------------------------------------------------------------
*/

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* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/include/ip_prefixlist_ion.h
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/* $Id$
* $Source$
*------------------------------------------------------------------
* router_topology_chain.c - Parser chains of router topology sub mode
* for multi-topology routing support
* Sept 2004, Mercia Zheng
*
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*------------------------------------------------------------------
* $Log$
*------------------------------------------------------------------
* $Endlog$
*/

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/* $Id$
* $Source$
*------------------------------------------------------------------
* exec_show_ip_extcommunity-list.h
*
* April 2000, Rex Fernando
*
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* All rights reserved.
*------------------------------------------------------------------
* $Endlog$
*/

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* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/internal_inc/exec_show_ip_policylist.h
No license file was found, but licenses were detected in source scan.
/*---------------------------------------------------------------*
* router_af_parse_blob.c                                        *
*                                                            *
* Address family submode command - proxy EOLs                 *
*                                                            *
* May 2002, Victor Kamensky                                    *
*                                                            *
* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc.   *
* All Rights Reserved                                          *
*---------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/router_af_parse_blob.c

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

/*
*---------------------------------------------------------------*
* policylist_blob.c - Routines to handle policy-list commands.  *
* Common for IOS and ION Blob.                                 *
*                                                            *
* November 2003, Siva Yaragalla                               *
*                                                            *
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*---------------------------------------------------------------*/

Found in path(s):
* /opt/cola/permits/1130450046_1615190725.52/0/iproute-254-tar/iprouting_cmn/src/policylist_blob.c

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1.487 python3-werkzeug 0.14.1 r0
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1.488 cryptsetup 2.3.3 2.el8

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2.module_el8.1.0+142+c39af44f

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Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python's 
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.496 python3-pytz 2019.2 r0

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That's all there is to it!

1.502 python3-pyyaml 5.3.1 r0

1.502.1 Available under license:

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1.503 curl 7.61.0

1.503.1 Available under license:

License Mixing

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can lead to for end users.

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1.516 python-pip 9.0.3-18.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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1.519 update-rc-d 0.8 r0

1.520 asn-cmu v1

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1.521 tpm2-tools 5.0 r0

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1.522 lvm2 1.02.163-5.el8.0.1
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>:2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.
Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

<table>
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<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>4096 6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096 20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0 16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

<table>
<thead>
<tr>
<th>0 unused</th>
<th>5 4.1BSD</th>
<th>9 4.4LFS</th>
<th>d boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 swap</td>
<td>6 Eighth Edition</td>
<td>a unknown</td>
<td>e ADOS</td>
</tr>
<tr>
<td>2 Version 6</td>
<td>7 4.2BSD</td>
<td>b HPFS</td>
<td>f HFS</td>
</tr>
</tbody>
</table>
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1.535 iosionplatform 1

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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.

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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.

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.

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Linking with OpenSSL

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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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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produce the work, or an object code interpreter used to run it.

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not
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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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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A separable portion of the object code, whose source code is excluded
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doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
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1.542 linux-kernel v4.9.263 3890a3fbfc39

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### 1.544 python3-pycparser 2.20 r0

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pycparser -- A C parser in Python

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1.545 json-c 0.13.1 r0
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1.546 libmnl 1.0.4-6.el8

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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.

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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which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser 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
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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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You may 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:

@enumerate a
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The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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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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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.
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.

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:
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.)

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.

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.

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.

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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@item
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@enumerate a
@item
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.

@item
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.
@end enumerate

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Version 2.1, February 1999

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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!

1.557 d-bus 1.12.8-12.el8

1.557.1 Available under license:

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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}${SDK}/usr/sbin/mkfsusr/sbin/mkfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rawusr/sbin/raw
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/zramctltür/sbin/zramctl

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/ipcalcusr/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.
#
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}${SDK}/usr/sbin/exportfusr/sbin/exportfs
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.mountdusr/sbin/rpc.mountd
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/rpc.nfsdusr/sbin/rpc.nfsd

(include nfs-common)
# The following optional kernel modules are put here to allow forwarding
# compatable when NFSV4 support is configured in kenrel.
# 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/1130449848_1615191957.87/iptables-tar/linux-system/nfs-utils
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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}${SDK}/usr/lib/systemd/system.conf
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-generators/systemd-fstab-generator
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/basic.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/emergency.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/local-fs-pre.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network-online.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/network.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/paths.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/poweroff.target
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system/reboot.target

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}${SDK}/usr/lib/systemd/systemd-timedated
usr/lib/systemd/systemd-timedated
linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/systemd-udevd
usr/lib/systemd/systemd-udevd
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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# Original Creation Date Unknown
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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 pcitools)
(include procps)
(include psmisc)
(include rprocbind)
(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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#
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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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#
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#include all-common

#include systemd

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/all
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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/${NFS_VER}/nfs-utils.conf etc/nfs-utils.conf
Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/nfsv4/nfs-common
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<table>
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<th>path</th>
<th>source</th>
<th>license file found</th>
</tr>
</thead>
</table>
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditd | usr/sbin/auditd | no
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/audispd | usr/sbin/audispd | no
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/autrace | usr/sbin/autrace | no
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport | usr/sbin/aureport | no
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/auditctl | usr/sbin/auditctl | no
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/sbin/aureport | usr/sbin/aureport | no

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/audit
No license file was found, but licenses were detected in source scan.

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(include systemd-common)

<table>
<thead>
<tr>
<th>path</th>
<th>source</th>
<th>license file found</th>
</tr>
</thead>
</table>
| /linkfarm/${SYSROOT}${ARCH}${SDK}/usr/lib/systemd/system-presets/90-systemd-preset | etc/systemd/system-presets/90-systemd-preset | no
| /usr/lib/systemd/system-presets/90-systemd-preset | etc/systemd/system-presets/90-systemd-preset | no
| /usr/lib/systemd/system/auditd | etc/systemd/system/auditd | no
| /usr/lib/systemd/system/autodispd | etc/systemd/system/autodispd | no
| /usr/lib/systemd/system/autotrace | etc/systemd/system/autotrace | no
| /usr/lib/systemd/system/aurereport | etc/systemd/system/aurereport | no

Found in path(s):
* /opt/cola/permits/1130449848_1615191957.87/0/iptables-tar/linux-system/audit
No license file was found, but licenses were detected in source scan.
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/1130449848_1615191957.87/0/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

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/1130449848_1615191957.87/0/iptables-tar/linux-system/nfs-utils
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#  
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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

Open Source Used In Cat9K 17.7.1 6894
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

1.558 libhugetlbfs 2.21 r0
1.559 rrdtool 1.7.2 r0

1.559.1 Available under license:

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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
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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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.

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.

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

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1.565 udev 239-43.el8

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import io
import re

from setuptools import find_packages
from setuptools import setup

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

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'\w+version\w+ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},

Found in path(s):
* /opt/cola/permits/1155142552_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

========

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.
Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

   $ pip install -U Jinja2


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

.. code-block:: jinja

   {% extends "base.html" %
   {% block title %}Members{% endblock %
   {% block content %
   <ul>
   {% for user in users %}
   <li><a href="{{ user.url }}">{{ user.username }}</a></li>
   {% endfor %
   </ul>
   {% endblock %

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
1.567 tipcconfig 2.0.6 r0

1.568 libyaml 0.1.7 5.el8

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

tools/shhopt.c, tools/shhopt.h:
Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.574 zlib 1.2.11

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   version 1.2.11, January 15th, 2017

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   jloup@gzip.org          madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
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1.575 rpcbind 1.2.5 r0

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1.576 python3-gevent 1.4.0 r0

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gevent/libuv/_coreffi_source.c
gevent/libuv/_coreffi_cdef.c

Originally based on code from https://github.com/veegee/guv

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1.577 python3-markupsafe 1.1.1 r0

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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: The Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

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

Installing

--------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe


Examples

--------

.. code-block:: pycon

   >>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'<script>alert(document.cookie);</script>')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')</n
    Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
    Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>"
>>> template % "World"
    Markup('Hello &lt;em&gt;World&lt;/em&gt;')

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* Issue tracker: https://github.com/pallets/markupsafe/issues
* Test status:

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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Requires-Python: >=2.7,!=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*

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* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO
* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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 * markupsafe__speedups
 * ~~~~~~~~~~~~~~~~~~~~
 * 
 * C implementation of escaping for better performance. Used instead of
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* /opt/cola/permits/1123974655_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe__/__init__.py
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Julian Seward, jseward@bzip.org
bzlib2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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Version 3.1, 31 March 2009

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1.581 python-greenlet 0.4.15 r0

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1.583 ima-evm-utils 1.1-5.el8

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-*. org -*.
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.600 vim 8.0.1763-13.el8

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*uganda.txt* For Vim version 8.0. Last change: 2013 Jul 06

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*iccf* *ICCF*
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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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Kibaale Children's Centre is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.
Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are...
on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
   Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
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   Swift code: INGB NL 2A
   IBAN: NL95 INGB 0004 5487 74
   under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
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   Swift code: RABO NL 2U
   under the name "Bram Moolenaar", Lisse
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   8134 Adliswil
   Switzerland

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vim:tw=78:ts=8:ft=help:norl:
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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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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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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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pycparser -- A C parser in Python

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ASSEMBLY LANGUAGE: a very small and fast Java bytecode manipulation framework

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1.632 python-iso8601 0.1.12 r0

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1.633 libdnf 0.35.1 9.el8_1

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1.634 rpm 4.14.2-25.el8

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.640 iputils 20180629-6.el8
1.640.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
 *------------------------------------------------------------------
 * ipParserLinkpoints.h - IP related parser linkpoint decls.
 *------------------------------------------------------------------
 * All rights reserved.
 */
Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_parser_linkpoints.h
No license file was found, but licenses were detected in source scan.

/*
* util_ip.c -- miscellaneous ip specific utility routines
* Feb 2008, Hiral mehta
* Copyright (c) 2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/ip_util.c
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# All rights reserved.

Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/reg/ip_15_registry.reg
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/makefile
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/expl_path/makefile
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/src.mk
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/expl_path/src/src.mk
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/*
* ipaddress_api.h
* February 2004
* All rights reserved.
*------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ipaddress_api.h
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/*
* ip_parser_macros.h - IP* macros moved out of
* sys/parser/macros.h
*
* November, 2004
*
* Copyright (c) 2004, 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*__________________________________________________________
*
*/

Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_parser_macros.h
No license file was found, but licenses were detected in source scan.

/*------------------------------------------------------------------
* ip_15_registry.h -- Registration Points for IP_15 support
* *
* August 2006, Krishna Kumar Maurya
* *
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*__________________________________________________________
* The file ip_registry.reg has been re-factored into 44 different
* registries to address the 2G problem. The detail regarding the
* mapping of registries into services is available at
* /vob/ios.sys1/deprecated/sys/ip/ip_registry_map.txt
* For further detail regarding the re-factoring of registries,
* please mail in your queries to dolphins@cisco.com
*/

Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/include/ip_15_registry.h
No license file was found, but licenses were detected in source scan.

/*
*__________________________________________________________
* ip_parser_linkpoints.c - IP related parser linkpoint definitions.
* *
* April, 2005
* *
* Copyright (c) 2005, 2008-2009, 2014 by cisco Systems, Inc.
* All rights reserved.
* *
*__________________________________________________________
*/
Found in path(s):
* /opt/cola/permits/1130449866_1615188952.97/0/ip-tar/ip/src/ip_parser_linkpoints.c

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

##
## Component "ip":
##
## Copyright (c) 2008-2009, 2013-2014 by cisco Systems, Inc.
## All rights reserved.
##

syntax: 1.0.0

# meta-source files found within component 'ip'
group: generic
{
    reg:
        include/reg/ip_15_registry.reg
        include/reg/ip_registry.reg
}

# migrated from file: 'ip/src/src.mk'
group: top
{
    includes: $(IOS_SYSROOT)/ion/include $(COMPONENT_ROOT)/posix/include
    # These diagnostic disables are temporary and must be removed
    # after fixing the problems in the source code
    if: compiler == gcc.c4.7
    {
        cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare
    }
    sub: ip_parser
    {
        contains:
            src/ip_parser_linkpoints.c
    }
    sub: ip_registry
    {
        contains:
            src/ip_registry.c
    }
    sub: ip_util
    {
        contains:
            src/ip_util.c
    }
}
1.641 libmetalink 0.1.3 7.el8
1.641.1 Available under license:

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1.642.1 Available under license:

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Version 2.1, February 1999

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

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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.

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

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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clarification of the licensing that was already in place.=20

-- Nathan
=20
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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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> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
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> 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
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additional code, so whatever licensing y'all come up with is fine by me.

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> 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:
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  > > 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:
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
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-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.
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> 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.
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> > make the change now ?
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> > 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 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, 01 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 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: <1b1b3f6d80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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______________________________________________
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> [mailto:cracklib-devel-bounces@li...]
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> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change...
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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)
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    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])
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    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 esmtp (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>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
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Happy now? :-)

-a

1.643 cyrus-sasl 2.1.27-1.el8

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1.644 go-context git r0

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1.645 python3-bcrypt 3.1.4 r0

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"Clone me," says Dolly sheepishly

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2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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5. [6]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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31. [34] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, 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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1.658 python-uwsgi 2.0.18 r0
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.668 python-pyserial 3.4 r0

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1.670 pynacl 1.4.0

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1.674 tcl-tk 8.3.4

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1.675 libmetalink 0.1.3 7.el8

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1.676 protobuf-c 1.3.2 r0

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1.677 python3-iso8601 0.1.12 r0

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-- $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.

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1.680 shadow 4.6 r0

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1.682 python3-pygobject 3.34.0 r0

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1.688 netkit-telnet 0.17 r0

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

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  * M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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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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1.694 python3-attrs 19.3.0 r0

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1.695 expat 2.2.8 r0

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1.696 screen 4.6.2 r0

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its purpose remains meaningful.

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1.719 nghttp2 1.39.2 r0

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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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1.720 libcxx 7.1.0 r0
1.720.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zeC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

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

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
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    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
 ; CHECK-LABEL: test_sitofp_fixed_shortish:

 ; CHECK-DAG: scvtf.2d v0, v0
 ; CHECK-DAG: scvtf.2d v1, v1

 ; CHECK: ret
 %flt = sitofp <4 x i64> %in to <4 x double>
 %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
 ret <4 x double> %res
}

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<td>ObjectContainerBSDArchive.cpp</td>
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```
LINK_LIBS
  llldbCore
  llldbHost
  llldbSymbol
LINK_COMPONENTS
  Support
)
```

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; RUN: llc -march=hexagon < %s
; REQUIRELS: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph:
    ; preds = %entry
    br label %while.body

  while.body:
    ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

    sw.bb.i:
      ; preds = %while.body
      unreachable

    sw.bb3.i:
      ; preds = %while.body
      unreachable

  exit:
    ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

    sw.bb.i17:
      ; preds = %exit
      %0 = bitcast %struct.0* %lsr.iv to i32*
      %1 = load i32, i32* %0, align 4
      unreachable

    sw.bb3.i20:
      ; preds = %exit
      %2 = bitcast %struct.0* %lsr.iv to i8**
      %3 = load i8*, i8** %2, align 4
      unreachable

  exit.2:
    ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

  while.end:
    ; preds = %entry
    ret void
}
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT bb0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {  
  %res = call fp128 @llvm.fabs.f128(fp128 %a)  
  ret fp128 %res  
; CHECK-LABEL: TestFabs:  
; CHECK andps .LCPI1_0(%rip), %xmm0  
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {  
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)  
  ret fp128 %res  
; CHECK-LABEL: TestCopysign:  
; CHECK andps .LCPI2_1(%rip), %xmm0  
; CHECK-NEXT orps %xmm1, %xmm0  
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {  
  %mul = fmul fp128 %a, %a  
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul  
  ret fp128 %res  
; CHECK-LABEL: TestFneg:  
; CHECK movaps %xmm0, %xmm1  
; CHECK-NEXT callq __multf3  
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0  
; CHECK-NEXT popq %rax  
; CHECK-NEXT retq
}

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* stdio.c
* by Mark Gates <mgates@nlanr.net>
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* *-------------------------------------------------------------------
* input and output numbers, converting with kilo, mega, giga
* *------------------------------------------------------------------- */

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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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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.

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

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

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the
   application. Therefore, Subsection 2d requires that any
   application-supplied function or table used by this function must
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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* /opt/ws_local/PERMITS_SQL/1033344937_1590683254.87/0/locale-2-zip/locale-2.h

1.733 o-profile 1.3.0 r0
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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_SOOPPTIONS= -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 $<"
@if ($(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed 's/{\$*}/\1.o $@ : /g' \n | rm -f $@'

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

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

## Bind internal references

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

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

## Remove shared library 's'
## End BSD-specific setup

### 1.735 openssl 1.1.1c-2.el8

#### 1.735.1 Available under license:

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```
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open source used in cat9k 17.7.1

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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++++++++++++++++

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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 * 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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1.742 kbd 2.0.4 r0
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<table>
<thead>
<tr>
<th>Font</th>
<th>Description</th>
<th>Data Size</th>
<th>Memory Usage</th>
</tr>
</thead>
<tbody>
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<td>256 characters</td>
<td>no index</td>
</tr>
<tr>
<td>0x0437</td>
<td>psf screen font data</td>
<td>512 characters</td>
<td>no index</td>
</tr>
<tr>
<td>0x0438</td>
<td>psf screen font data</td>
<td>256 characters, Unicode index</td>
<td></td>
</tr>
<tr>
<td>0x0439</td>
<td>psf screen font data</td>
<td>512 characters, Unicode index</td>
<td></td>
</tr>
<tr>
<td>0x043A</td>
<td>psf screen font data</td>
<td>256 characters, Unicode level 2 index</td>
<td></td>
</tr>
<tr>
<td>0x043B</td>
<td>psf screen font data</td>
<td>512 characters, Unicode level 2 index</td>
<td></td>
</tr>
<tr>
<td>0x043C</td>
<td>psf screen font data</td>
<td>8x%d</td>
<td></td>
</tr>
</tbody>
</table>

# PC Screen (console) Fonts - psf2 header

<table>
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<tr>
<th>Data Size</th>
<th>Memory Usage</th>
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<td>0x864ab52</td>
<td>psf2 screen font data</td>
</tr>
<tr>
<td>0x0000010</td>
<td>with Unicode index</td>
</tr>
<tr>
<td>0x0000010</td>
<td>\b, %d glyphs</td>
</tr>
<tr>
<td>0x0000010</td>
<td>\b%d</td>
</tr>
</tbody>
</table>
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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ca-bundle.crt -- Bundle of CA Root Certificates

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

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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Nmap and the other tools distributed with it. What follows is a
description of each third-party package. At the end of this file is the
license of each. The license of Nmap itself is in the COPYING file.

On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the
libpcap subdirectory.
http://www.tcpdump.org/
o libdnet: Networking library, used for low-level tasks such as sending
ethernet frames. A modified version is distributed with Nmap in the
libdnet-stripped subdirectory. A summary of Nmap-local modifications
is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory. [http://www.pcre.org/](http://www.pcre.org/)

- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive. [http://www.lua.org/](http://www.lua.org/)

- **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive. [http://www.openssl.org/](http://www.openssl.org/)


- **libsvn**: The Subversion library, used by the updater program nmap-update. [http://subversion.apache.org/](http://subversion.apache.org/)


On Windows only, Nmap uses:

- **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap. [http://www.winpcap.org/](http://www.winpcap.org/)

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

**Zenmap and Ndiff require:**

- **Python**: The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app. [http://www.python.org/](http://www.python.org/)

The Windows and Mac OS X binary packages include bundled versions of:

- **GLib, GTK+, ATK, Pango**: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2. [http://www.gtk.org/](http://www.gtk.org/)

- **Cairo**: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1. [http://www.cairographics.org/](http://www.cairographics.org/)

- **libgailutil**: Accessibility support for GTK+.  


o Expat: XML parser library.
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o fontconfig: font configuration library.
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   http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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

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Email local part: ph10  
Email domain: cam.ac.uk


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1.762 zlib 1.2.7 18.el7

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1.763 python-idna 2.8 r0

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/PKG-INFO

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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',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1084376762_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/setup.py

1.764 libmnl 1.0.4 6.el8
1.764.1 Available under license :

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Version 2.1, February 1999

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

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

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This package was added to the e2fsprogs debian source package by
Theodore T's'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003
It is part of the main e2fsprogs distribution, which can be found at:

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
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This package was put together by Yann Dirson <dirson@debian.org>,
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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)
The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git 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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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
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
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Brown, Jerry
Burr, Michael E
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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
Fryssinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
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Hieb, Dave
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Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
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Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, 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
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
Nieuwma, 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
Peslyak, 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.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages 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
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lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h  
kadmin/server/ipropd_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb_convert.c  
lib/kdb/kdb_log.c  
lib/kdb/kdb_log.h  
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1.776 harfbuzz 2.6.1 r0

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1.777 libdnet 1.12 r0

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1.778 python3-ndg-httpsclient 0.5.1 r0
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1.779 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 };  
`)  

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdbgd.if  
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#  
## <summary>Polaris cpp_stats Policy Rules.</summary>
Open Source Used In Cat9K 17.7.1 9028

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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)

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#
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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_crtf_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_pki_servers_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;
)

setattr_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, "ngxcsrft.log")
filetrans_pattern(polaris_nginx_t, syslogd_var_run_t, httpd_log_t, file, "ngxttest.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)
machine_fifo_files_pattern(polaris_file_transfer_client_t, polaris_nginx_t, polaris_nginx_t)
machine_fifo_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 nginx in webui connects to caf service on port 8098
corenet_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
corenet_tcp_connect_polaris_wnc_mgrd_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 intern 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_vwlc_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 privilege 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_aireos_translator_scripts_t;
files_type(polaris_aireos_translator_scripts_t)
polaris_process_domain_template(nginx_webui_aireos_translator)
polaris_nginx_exec_domain(polaris_nginx_webui_aireos_translator_t,
polaris_nginx_webui_aireos_translator_exec_t)
allow polaris_nginx_t polaris_aireos_translator_scripts_t:dir { getattr open read search };
allow polaris_nginx_t polaris_aireos_translator_scripts_t:file { getattr ioctl open read };
allow polaris_nginx_t polaris_nginx_webui_aireos_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_nginx_webui_trace_filter_t,
polaris_nginx_webui_trace_filter_exec_t)
corecmd_exec_bin(polaris_nginx_webui_trace_filter_t)
manage_files_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
manage_dirs_pattern(polaris_nginx_webui_trace_filter_t, polaris_nginx_tmp_t, polaris_nginx_tmp_t)
auth_use_nsswitch(polaris_nginx_webui_trace_filter_t)
polaris_trace_filter_domtrans(polaris_nginx_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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#

## <summary>Polaris cpp_cdm Policy Rules.</summary>

#####################################################################
## <summary>
##  Allow access to semaphore with type polaris_cpp_cdm_t
## </summary>
## <param name="domain">
##  Domain allowed access.
## </param>
#
interface(`polaris_cpp_cdm_sem_use`,
    gen_require(`
type polaris_cpp_cdm_t;
')
allow $1 polaris_cpp_cdm_t:sem rw_sem_perms;
')

#######################################
## <summary>
##      Allow access to shared memory with type polaris_cpp_cdm_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpp_cdm_shm_use',
    gen_require(
        type polaris_cpp_cdm_t;
    )
    allow $1 polaris_cpp_cdm_t:shm rw_shm_perms;
    )

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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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")

')

#<summary>
## Manage polaris_ndbmand_ndbutil_t files
</summary>
#<param name="domain">
## Domain allowed access.
</param>
#<param name="object">

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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#

## Polaris sif_mgr Policy Rules.

## Allow the specified domain able to read sif_mgr /tmp files.
## Domain allowed access.
## Domain allowed access.
## <summary>
## File name in /tmp that the sif_mgr domain creates and other domains
## access.
## </summary>
## </param>
#
interface('polaris_sif_mgr_tmp_files_read',
    gen_require(
        type polaris_sif_mgr_tmp_t;
    ')
)

read_files_pattern($1, polaris_sif_mgr_tmp_t, polaris_sif_mgr_tmp_t)
')

Found in path(s):
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#

## <summary>Polaris Chasfs Policy Rules.</summary>

###############################################################################
# Chasfs policy
###############################################################################

###############################################################################
## <summary>
## Manage chasfs files
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_chasfs_manage',
    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_link_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;

######################################
## <summary>
##      Read chasfs files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
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_link_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;
`)

###############################
## <summary>
##     Manage chasync file(user_input_custom.xml)
## </summary>
## <param name="domain">
##      <summary>
##      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">
## Domain allowed access.
## </param>
#
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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#
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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
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#
## <summary>Polaris GR Manager Policy Rules.</summary>

Found in path(s):
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policy_module(polarisngwc, 1.0);

# chdrvmmap device (MMAP Driver for ASIC Memory mapping)
  type polaris_chdrvmmap_device_t;
  dev_node(polaris_chdrvmmap_device_t)

# gettysburg_fpga device (/dev/gettysburg_dev1)
  type polaris_gettysburg_fpga_device_t;
  dev_node(polaris_gettysburg_fpga_device_t)

# dplr io memory mapping 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_itfpo_t;
  files_type(polaris_ngwc_itfpo_t)

# /dev/shm/sem.i2c_sem00N quake semaphor
  type polaris_quake_i2c_t;
  files_type(polaris_quake_i2c_t)
#FPGA io memory mapping driver /dev/cisco/fpgaioem

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)
')
#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)
    fstools_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_tmp_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)
kernel_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)
#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_cmm_exec_t;
files_type(polaris_cmm_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_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)
')

#endif(`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_cmm_exec_t;
files_type(polaris_cmm_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_nplusm_power_file_t;
polaris_pfile_type(polaris_nplusm_power_file_t)

#permission for /ucode0
optional_policy(

gen_require(

type polaris_periodic_t;
policy_module(polaris_stackmgr, 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_manage(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_ripc_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_dyncfg_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;

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 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.te
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#
# January 2018, Manohar Hungund
#
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#
#
# polarisoctdplogrp file contexts place holder

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 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoctdplogrp.fc
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#
#
## <summary>Polaris cedge_start Policy Rules.</summary>

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 * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgestart.if
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl
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',``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_mqipc_te.m4
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# #
## <summary>Polaris polarisqfp Policy Rules.</summary>

#############################################################
## <summary>
## Work (read, write, ioctl) with /dev/netmap device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## </summary>
#
interface(`polaris_netmap_dev_use',``
gen_require`
type device_t;
```c

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">
## <summary>
## Domain allowed access.
## </summary>
## </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">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_qfp_sem_use',
    gen_require('  
        type polaris_qfp_t;
    ')
    allow $1 polaris_qfp_t.sem rw_sem_perms;
    ')

########################################################################
## <summary>
## Send messages to qfp unix datagram sockets.
## </summary>
## <param name="domain">
```
```c
##
## Domain allowed access.
##</summary>
##</param>
#
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;
')

####################################
## <summary>
##      Execute iodbd.sh script in the polaris_iodbd_t domain.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
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">
```
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)
   `)

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;
   `)

interface(`polaris_qfp_log_manage',``
               gen_require(`
                   type polaris_qfp_log_t;
               `)
           manage_files_pattern($1, polaris_qfp_log_t,polaris_qfp_log_t)
           manage_sock_files_pattern($1, polaris_qfp_log_t, polaris_qfp_log_t)
           gen_require(`
                   type tmp_t;
               `)
           manage_dirs_pattern($1, { tmp_t polaris_qfp_log_t }, polaris_qfp_log_t)
           allow $1 polaris_qfp_log_t:file map;
   `)
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)
)

interface('polaris_icp_dev_use',
    gen_require(' 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_1615183271.1/0/selinux-tar/selinux/polarisqfp.if
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#

/usr/binos/bin/*.linux_iosd.*ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/usr/binos/bin/mcpcc-lc-ms -- gen_context(system_u:object_r:polaris_iosd_exec_t,s0)
/tmp/boottime                          gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
/tmp/booted                            gen_context(system_u:object_r:polaris_iosd_tmp_files_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiosd.fc
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#
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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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#
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#
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#

## <summary>Polaris MCP Platform Policy Rules.</summary>

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/scooby
## </summary>
## <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)
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/spa[0123]
## </summary>
## <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;
')

######################################
## <summary>
## Work (read, write, ioctl) with /dev/htdp[0-9]*
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
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>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
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>
## <param name="domain">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
#
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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_hmdp
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cpp_hmdp_dev_use',`
    gen_require(
        type polaris_cpp_hmdp_device_t;
    )
    write_chr_files_pattern($1, device_t, polaris_cpp_hmdp_device_t)
    read_chr_files_pattern($1, device_t, polaris_cpp_hmdp_device_t)
    allow $1 polaris_cpp_hmdp_device_t:chr_file map;
')

########################################
## <summary>
##      Allow access to /dev/n2_device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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)
    allow $1 polaris_n2_device_t:chr_file map;
')
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"
### <summary>
### Domain allowed access.
### </summary>
### </param>

```c
#define 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
dnl
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dnl
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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#

policy_module(polarisiosd, 1.0);
```

```
type polaris_iosd_t;
'

###############################################################################
# mqipc manual, one that missing in platform tdl file
###############################################################################

ifdef(`nyquist_platform',`
  gen_require(`
    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_tlldb_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_tlldb_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/netsl/1/resolv.conf via ip domain-name < command
# creates /etc/netsl/vrf.VRFNAME via ip vfr VFRNAME command
# creates /etc/netsl/vrf.VRFNAME/resolv.conf via ip
# domain-name vrf VFRNAME < command
gen_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 };

gen_require(
    type httpd_config_t;
    type tmp_t;
)

# iosd creates /tmp/nginx.conf file
manage_files_pattern(polaris_iosd_t, tmp_t, httpd_config_t)
# transition nginx.conf into httpd_config_t
files_tmp_filetrans(polaris_iosd_t, httpd_config_t, file, "nginx.conf")
# RW access to /usr/binos/conf/nginx-conf/servers (utd feature)
manage_dirs_pattern(polaris_iosd_t, httpd_config_t, httpd_config_t)

# iosd create /tmp/nginx/cert/ca.cert
polaris_nginx_tmp_manage(polaris_iosd_t)

# !!!LOOK AT ME!!! - we allow iosd to read raw memory
# dev_read_raw_memory(polaris_iosd_t)
polaris_flashlib_write(polaris_iosd_t)
polaris_nvram_manage(polaris_iosd_t)
polaris_persistent_manage(polaris_iosd_t)

# smu management in iosd (linked in via libbcrdu.so) accesses
# files created by the installer under /tmp/patch
polaris_install_tmp_read(polaris_iosd_t)

optional_policy(''
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;

ifndef('crankshaft_family',
ifconfig_attach_tun_iface(polaris_iosd_t)
corenctw_tun_tap_dev(polaris_iosd_t)
')

ifndef('mcp_family',
ifconfig_attach_tun_iface(polaris_iosd_t)
corenctw_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
ifndef('crankshaft_family',
dev_rw_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
')
ifndef('vxe_family',
dev_read_sysfs(polaris_iosd_t)
polaris_disk_objstore_manage(polaris_iosd_t)
polaris_objstore_sem_use(polaris_iosd_t)
')
ifndef('vwlc_platform',
polaris_disk_objstore_manage(polaris_iosd_t)
optional_policy(
  polaris_vwlc_grub_efi_use(polaris_iosd_t)
)
')
ifndef('wlc_family',
dev_read_sysfs(polaris_iosd_t)
polaris_tlscd_uds_manage(polaris_iosd_t)
gen_require(
  type polaris_tlscd_t;
)
allow polaris_iosd_t polaris_tlscd_t:unix_dgram_socket sendto;
')

# on lmg mcpec-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)
  )
  
  # __get_nprocs opens /sys/devices/system/cpu/online
  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_udev_tmp_files_t:dir { getattr open read search };
  #allow polaris_iosd_t polaris_udev_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_t;
  files_tmp_file(polaris_restconf_tmp_t)
  polaris_restconf_tmp_use(polaris_iosd_t)
  files_tmp_filetrans(polaris_iosd_t, polaris_restconf_tmp_t, dir, "restconf")
  filetrans_pattern(polaris_iosd_t, polaris_restconf_tmp_t, polaris_restconf_tmp_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, 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 acceptgetattr read ioctl getopt setoptopt 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/cpp_ifdev_shmem shared mmory
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)
')

# when /bootflash or /harddisk are 100% full
allow polaris_iosd_t self:capability sys_resource;
# mcp_set_clock wants to call settimeofday
allow polaris_iosd_t self:capability sys_time;

# 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)
')

# 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)
')

#ifdef(`mcp_family',`
  polaris_cpld_dev_use(polaris_iosd_t)
')

#endif

# on 1ng write/ioctl into /dev/cpld-ha
# on vwlc ha scenario, iosd needs write access to /dev/cpld-ha
optional_policy(`
  polaris_cpld_dev_use(polaris_iosd_t)
')

# deals with /dev/shm files semaphors; like uuid_sem semaphore
# 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_manager(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_manager(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_manager(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.5B1BF1D7648E21AEE3000002
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 };
corenetsdp_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(`wle_family',`
polaris_qfp_sem_use(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenetsdp_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)
corenetsdp_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.
kernel_read_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)
corenet_rw_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_tlddbpersist_setup(polaris_iosd_t)
polaris_tmp_tlddb_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',
  gen_require(
    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)

mmap_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)

polis_i2c_sem_manage(polaris_iosd_t)
ifconfig_attach_tun_iface(polaris_iosd_t)
corenet_rw_tun_tap_dev(polaris_iosd_t)
term_use_usb_ttys(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")

# Allow access to /bootflash/certs
  
polaris_wlc_ap_cert_manage(polaris_iosd_t)

# commad "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;
)

define_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_API
allow polaris_iosd_t polaris_iosd_tmpfs_t:file map;
    #allow access to polaris_cm_rp_t sem
polaris_cm_rp_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
dev_rw_sysfs(polaris_iosd_t)
allow polaris_iosd_t sysfs_t:file { create map };
dev Manage_sysfs_dir(polaris_iosd_t)
    # iosd need access to sdflash files image is stored
polaris_swipedrive_file_manager(polaris_iosd_t)
polaris_getattr_swipedrive(polaris_iosd_t)
#iosd need access to mmcbk0p3

gen_require(' type polaris_disk_recovery_t; ')
allow polaris_iosd_t polaris_disk_recovery_t:filesystem getattr;
#iosd need access to mmcbk0p2
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)
')
#endif('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) ')

#endif('ngwc_family', '
# 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)

#endif('ngwc_family', '
# watch /tmp
allow polaris_iosd_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/polarisoctdpllogrp.if

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# 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;
    `)
)
########################################################################
## Manage /tmp/tmp files and directories

### <param name="domain">

### <summary>

**Domain allowed access.**

### </summary>

### </param>

```c
# 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>

```c
# 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>

### </param>

#
interface('polaris_cedge_etc_read',
    gen_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>
#
interface('polaris_cedge_etc_watch',
    gen_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_cedge_reset_ns',`
   init_read_state($1)
`)

######################################
## <summary>
##      Manage /dev/shm viptela files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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, tmpfs_t, polaris_econfd2sysmgr_tmp_t)
   files_tmp_filetrans($1, polaris_econfd2sysmgr_tmp_t, dir, ".econfd2sysmgr-ipc")
   allow $1 polaris_econfd2sysmgr_tmp_t:dir map;
`)

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Open Source Used In Cat9K 17.7.1 9076


```c

// Open Source Used In Cat9K 17.7.1 9077

// # <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">
// #      <summary>
// #      Domain allowed access.
// #      </summary>
// # </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)
'``)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.if
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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">
// #      <summary>
// #      Domain allowed access.
// #      </summary>
// # </param>
#
/interface('polaris_cpp_driver_sem_use',
    gen_require(''`
    type polaris_cpp_driver_t;
    '``)
)
```

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#
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#
## <summary>Polaris cpp_driver Policy Rules.</summary>

```
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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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#
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#
#
## <summary>Polaris polarisautoupgrade Policy Rules.</summary>

########################################
## <summary>
##      Execute auto-upgrade scripts in their own domain
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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>
#
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_lnk_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

# Allow read-only access to CRFT generated files
##<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_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
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 dicussion 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>
##<rolebase/>
#
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 file type.
## </summary>
##<param name="type">
## Type to be used for files.
## </param>
##<rolebase/>
#
interface(`polaris_crft_data_type',`
files_type($1)
polaris_pfile_type($1)
gen_require(`
    attribute polaris_crft_data_domain;
')
typeattribute $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>
#
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_$1_crft_t;
        polaris_crft_data_type(polaris_$1_crft_t)
    ')
)
type polaris_$1_crft_t;
polaris_crft_data_type(polaris_$1_crft_t)
polaris_crft_data_client(polaris_$1_t, polaris_$1_crft_t)
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#
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#
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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)

Found in path(s):
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#
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#
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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")

########################################################################
# cfg_sync.sh policy
########################################################################
polaris_utility_domain_template(cfg_sync)

polaris_execute_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)

gен_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)

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dnl April 2018, Victor Kamensky
dnl
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dnl
# polarisvxeipcbaseauto file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_base_fc.m4
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#
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#
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## <summary>Polaris cm_fp Policy Rules.</summary>

### Execute cmand_fp in the polaris_cm_fp_t domain.

```c
interface(`polaris_cm_fp_domtrans',`
  gen_require(`
  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)
')
```

### Allow the specified domain to manage cm_fp_tmp files

```c
interface(`polaris_cm_fp_tmp_manage',`
  gen_require(`
  type polaris_cm_fp_tmp_t;
  type tmp_t;
  ')

  manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)
')
```

### Create objects in /tmp with a polaris_cm_fp_tmp_t type using a type_transition.

```c
interface(`polaris_cm_fp_tmp_type',`
  gen_require(`
  type polaris_cm_fp_tmp_t;
  type tmp_t;
  ')

  manage_files_pattern($1, { polaris_cm_fp_tmp_t tmp_t }, polaris_cm_fp_tmp_t)
')
```
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface(`polaris_cm_fp_tmp_filetrans',`
  gen_require(`
    type polaris_cm.fp_t;
  ')
  files_tmp_filetrans($1, polaris_cm.fp_t, file, "octeon-remote-lock-pci:0")
')

########################################
## <summary>
##      Allow access to semaphore with type polaris_cm fp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cm_fp_sem_use',`
  gen_require(`
    type polaris_cm.fp_t;
  ')
  allow $1 polaris_cm.fp_t:sem rw_sem_perms;
')

########################################
## <summary>
##      Allow access to shared memory with type polaris_cm fp_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_cm_fp_shm_use',`
  gen_require(`
    type polaris_cm.fp_t;
  ')
  allow $1 polaris_cm.fp_t:shm rw_shm_perms;
')

########################################
## <summary>
## <summary>
### Allow access to /dev/hkp with type polaris_cm_fp_t
### <summary>
### Domain allowed access.
### </summary>
### <param name="domain">
## interface('polaris_hkp_dev_use', '"
    gen_require(''
        type device_t;
        type polaris_hkp_device_t;
    ')
    writeChrFilesPattern($1, device_t, polaris_hkp_device_t)
    readChrFilesPattern($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

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#
# August 2017, Victor Kamensky
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#
#
### <summary>Polaris crankshaft Platform Policy Rules.</summary>

######################################
## Work (read, write, ioctl) with /dev/linux-(user|kernel)-bde devices
### <summary>
### <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
#
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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>
#
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```c
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)
');
```

# Work (read, write, ioctl) with /dev/qae_mem device
## <summary>
## Work (read, write, ioctl) with /dev/qae_mem device
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```c
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)
');
```

# Read mokafpga files in /sys/devices/platform directory
## <summary>
## Read mokafpga files in /sys/devices/platform directory
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>

```c
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">
## Domain allowed access.
## </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)
   )
)

######################################
## Work (read, write, ioctl) with /dev/moka_fpga
## <summary>
## Domain allowed access.
## </summary>
## <param name="domain">
#
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)
   )
)

######################################
## Work (read, write, ioctl) with /dev/nim_dm_0_1 and
## /dev/nim_dm devices
## <summary>
## Domain allowed access.
## </summary>
##
interface('polaris_nim_dm_dev_use',
    gen_require('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;
')

########################################
## Execute a domain transition to run load_usbnet.sh.
##
interface('polaris_load_usbnet_domtrans',
    gen_require('polaris_load_usbnet_t, polaris_load_usbnet_exec_t;
')
    domtrans_pattern($1, polaris_load_usbnet_exec_t, polaris_load_usbnet_t)
')

########################################
## Label and allow access to i2c semaphore files.
##
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.
## </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.
## </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)
)

## <summary>
## Work (read, write, ioctl) with /dev/sparrow_psu device
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('polaris_qcqmi_dev_use',
    gen_require('  
        type device_t, qcqmi_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;
### Read /dev/dio-*

#### <summary>
Domain allowed access.
#### </summary>
#### </param>

```c
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)
')
```

### Work (read, write, ioctl) with /dev/ttyNMEA* and /dev/ttyTunNMEA*

#### <summary>
Domain allowed access.
#### </summary>
#### </param>

```c
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;
')
```

### Read /dev/ttyNMEA* and /dev/ttyTunNMEA*

#### <summary>
Domain allowed access.
#### </summary>
#### </param>

```c
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)
)

#########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/nim_phy
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
#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
dnl max_bay_map_set('rp', `per_bay', 0)
dnl max_bay_map_set('cc', `per_bay', 3)
dnl max_bay_map_set('fp', `per_bay', 0)

dnl max_bay_ripc_map_set('rp', `per_bay', 0)
dnl max_bay_ripc_map_set('cc', `per_bay', 3)
dnl max_bay_ripc_map_set('fp', `per_bay', 0)

dnl max_bay_ripc_map_set('rp', `global', 0)
dnl max_bay_ripc_map_set('cc', `global', 3)
dnl max_bay_ripc_map_set('fp', `global', 0)
# 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_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/bootflash2 -b       gen_context(system_u:object_r:polaris_nvram_file_t,s0)
/dev/bootflash3 -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)
/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 -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_mem -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/bin/os/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/dbpersist(/.*)? 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)
.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)
Open Source Used In Cat9K 17.7.1

9100

# /flash3 OBFL

/flash3/(/.*)?                      gen_context(system_u:object_r:polaris_obfl_data_t,s0)
/flash3/OBFL/(/.*))?               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/usb1/(/.*))?                   gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/dev/shm/sem\._dev_i2c_0            gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/dev/shm/sem\._dev_i2c_1            gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/dev/shm/sem\._dev_i2c_2            gen_context(system_u:object_r:polaris_cm_cc_tmpfs_t,s0)
/tmp/udev/etc/udev/msata/udev-info  gen_context(system_u:object_r:polaris_udev_tmp_files_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/dio-[1-4] -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_gp0p_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_tddldb_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_objfl_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 dynfg_setup.sh, allow its transition to dynfg_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)
kernerl_write_proc_files(polaris_cm_fp_t)

# cm_fp tmp files like /tmp/octeon-remote-lock-pci:0

# 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().
kernel_request_load_module(polaris_cm_fp_t)

# needed for "show platform hardware slot F0 eobc interface standby rmon"
kernel_read_network_state(polaris_cm_fp_t)

# on RP2/RP3 linecard cyan init happens within cm
ifdef(`mcp_family',
polaris_dynfg_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/fpgaiomem
# for mapping FPGA io memory to application space.
polaris_fpga_iomem_mmapfpga_dev_use(polaris_cm_fp_t);
')

optional_policy(
  # Allow /dev/dma mmap 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_cm213_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/polariscmfp.te
No license file was found, but licenses were detected in source scan.

#
# December 2018, Victor Kamensky
#
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#

# polarisezmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisezmancc.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisripc, 1.0);

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.te
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#
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#
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#

# polarisripc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisripc.fc
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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’)
include(‘polaris_process_fc.m4’)

---

Open Source Used In Cat9K 17.7.1 9106
include(`polaris_ipc_mqipc.m4')
include(`polaris_ipc_mqipc_fc.m4')
include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_ripc_fc.m4')
include(`polaris_ipc_lipc.m4')
include(`polaris_ipc_lipc_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)
#
# 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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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(
    type init_t;
)
files_tmp_filetrans(init_t, polaris_packages_conf_t, file, "packages.conf")
No license file was found, but licenses were detected in source scan.

```
# July 2017, Victor Kamensky
#
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#
/usr/bin/os/conf/run_ioxn_gs_ha.sh -- gen_context(system_u:object_r:polaris_gsd_rp_exec_t,s0)
```

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

```
# March 2017, Victor Kamensky
#
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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_vwlc_ledp -- gen_context(system_u:object_r:polaris_cpp_sp_exec_t,s0)
```

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

```
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris Btrace Policy Rules.</summary>
```
```
```
## <summary>
##      Manage btrace auxiliary files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_btrace_data_manage',
  gen_require(''
    type polaris_btrace_base_t;
    type polaris_btrace_tmpfs_t;
    type tmpfs_t;
  ')

  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;
')

#######################################################################
## <summary>
##      Manage temporary (not yet persistent) btrace files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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>
## <rolebase/>
#
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>
## <rolebase/>
#
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 persistent 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

### <param name="domain">
###  Domain allowed access.
###  
### </param>

```
interface(`polaris_btrace_lvl_config_manage`,
  gen_require(`
  type polaris_btrace_lvl_config_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)
`)  
```

```
read_files_pattern($1, polaris_ldb_tmp_t, polaris_ldb_tmp_t)
```

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```
/// 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 unlinkgetattr);

# For pmanlite, allow pmans grand-children to be able to operate on pipe created by pman.
polaris_use_pman_fifo($1)
')

***************************************************************************
/// Execute create_luid_file_db in the its domain.
/// </summary>
/// <param name="domain">
/// Domain allowed to transition.
/// </param>
#
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)
')

***************************************************************************
/// Make the specified type usable as btrace data file type.
/// </summary>
/// <param name="type">
/// Type to be used for files.
/// </param>
interface('polaris_btrace_data_type',
    files_type($1)
gen_require(
        attribute polaris_btrace_data_domain;
    )
typeattribute $1 polaris_btrace_data_domain;
)

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 presence, 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">
## Domain allowed access.
## </param>
## <param name="file_type">
## File type of btrace that corresponds to given domain.
## </param>
## <rolebase/>
##

# all clients check for /tmp/rp/trace/publish/timed/enabled control
# file presence, 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

### <param name="domain_stem">
Steam of domain allowed access.

### </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)
')

### Execute mcp_trace_request.sh in its domain.

### <param name="domain">
Domain allowed to transition.

### </param>

### Watch btrace directories

### <param name="domain">
Domain allowed access.
policy_module(polaristamsrp, 1.0);

gen_require(
    type polaris_tams_rp_t;
)

polaris_btrace_data_manage(polaris_tams_rp_t)
polaris_crft_data_manage(polaris_tams_rp_t)
polaris_chasfs_manage(polaris_tams_rp_t)
polaris_tdlresolve_read(polaris_tams_rp_t)
polaris_tdldb_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_tamc_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):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristamsrp.te
No license file was found, but licenses were detected in source scan.
policy_module(polarisiomd, 1.0);

gen_require(
    
    type polaris_iomd_t;

)

polaris_btrace_data_manage(polaris_iomd_t)
polaris_crft_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_file(polaris_iomd_t, polaris_iomd_tmpfs_t)
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_nmap() api to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmap device.
polaris_chdrvmmap_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/MSI/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/MSI/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 acces PCI scan related
# rescan shm mutex
polaris_cmCc_tmpfs_manage(polaris_iomd_t)
')
'

# both utah and macallan text relocations in libc++common_os.so
ifdef(`crankshaft_family',
polaris_icc_broken_relocations(polaris_iomd_t)
#endif

# 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',
#ifdef(`crankshaft_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_asic_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
# binos/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()
# optional_policy('polaris_nmitfpo_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/...

```c
dev_rw_sysfs(polaris_iomd_t)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.te
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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>
    ## <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.
    ``
```
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)
kernlrw_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_tmpfiles(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 setscreate;
# 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_getattr_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_getattr_removable(polaris_ncd_t)
polaris_getattr_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_ncd_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_ncd_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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/starfleetmaps.m4
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#
# November 2020, Christine Hwang
#
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#
#
# Map BBU TTY to correct device context
/dev/ttyS2                         -c gen_context(system_u:object_r:polaris_bbu_device_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbbu.fc
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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
########################################################################
Work (read, write, ioctl) with /dev/act2

Domain allowed access.

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)
')

Create /tmp/hw_entropy file. Certain platforms save entropy from main board ACT-2 chip in this file.

Domain allowed access.

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)
')

Use /tmp/hw_entropy file. For some reason, iosd opens file in rw mode, not clear why it couldn't just read it.

Certain platforms save entropy from main board ACT-2 chip in this file.
## <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)
')

########################################################################
## <summary>
##      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
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#
# 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_tdlldb_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_tdlldb_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(
    # deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_dmi_ndbmand_t)
    # and allow read shared schema
polaris_confd_shared_schema_read(polaris_dmi_ndbmand_t)
    # read /proc/confd_pid/exe file
polaris_confd_read(polaris_dmi_ndbmand_t)
')

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_confd_ndbutil_create(polaris_dmi_ndbmand_t)

polaris_ndbutil_lock_template(polaris_dmi_ndbmand_t, ndbmand, ".1.schema_use.ndbmand")
polaris_confd_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
#
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#

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_conf_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
corenets_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
corenets_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_ftm_var_sock_write(polaris_omp_t)
# July 2020, Victor Kamensky
#
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#
## <summary>Polaris htx Policy Rules.</summary>

`interface(`polaris_htx_iox_tmp_t manage',`
    genRequire(`
        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;
    ')

`interface(`polaris_htx_dgram_send',`
    genRequire(`
    # Send messages to htx unix datagram sockets.
`
type polaris_htx_t;
)

allow $1 polaris_htx_t:unix_dgram_socket sendto;
)

#########################################################################
## <summary>
##   Work (read, write, ioctl) with /dev/sppi_memif device
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
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">
##   <summary>
##   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
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
policy_module(polarisesgtamcfg, 1.0);

gen_require('  
   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_tdldb_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
No license file was found, but licenses were detected in source scan.

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_ripc_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_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-1:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-2:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-3:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-4:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-5:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-6:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-7:R1:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_iosd_thr_fmanrp_mqipc_t, iosd-thr-fmanrp-8:R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_mobilityd_thr_fmanrp_mqipc_t, mobilityd-thr-fmanrp-R1:0)

polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-1:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-2:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-3:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-4:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-5:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-6:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-7:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-8:R0:0)
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_smd_thr_fmanrp_mqipc_t, smd-thr-fmanrp-R1:0)

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)
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) 

optional_policy(' 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-1:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-2:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-3:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-4:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-5:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-6:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-7:R0:0) 
polaris_mqipc_create_name(polaris_fman_fp_t, polaris_wncd_thr_fmanrp_mqipc_t, wncd_1-thr-fmanrp-8:R0:0) 
polaris_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 
# apparently even on nyquist fed creates /tmp/cpp_anon_db 
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)
k kernel_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)
')
## Read access to /bootflash/NACert.pem

### <summary>Polaris wncmgrd Policy Rules.</summary>

### <summary>Read access to /bootflash/NACert.pem</summary>
## Domain allowed access.

```c
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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# March 2017, Victor Kamensky
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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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# March 2017, Victor Kamensky
#
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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_d_exec_t,s0)
/usr/lib/libvirt/libvirt_lxc -- gen_context(system_u:object_r:virt_d_exec_t,s0)
/usr/sbin/libvirt_lxc -- gen_context(system_u:object_r:virt_d_exec_t,s0)
/3pa/sbin/virtd -- gen_context(system_u:object_r:virtd_exec_t,s0)
/3pa/usr/sbin/virtlogd -- gen_context(system_u:object_r:virtlogd_exec_t,s0)
/3pa/usr/bin/qemu.* -- gen_context(system_u:object_r:qemu_exec_t,s0)
/usr/binos/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/binos/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:tftpdirl_rw_t,s0)
/tftp/.*gen_context(system_u:object_r:tftpdirl_rw_t,s0)

# /tmp/sw
/tmp/sw -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/ro -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/fp -d gen_context(system_u:object_r:tmp_t,s0)
/tmp/cc -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)
/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)

# crypsetup - some platforms copy crypsetup 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
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#
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#
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policy_module(polarisiptbl, 1.0);

# Policy Module
#
# iptbl.sh manual
#
# Source: /etc/polarisiptbl
#
# and sources:
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# Source: /etc/iptables
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# Source: /etc/ipt
manage_link_files_pattern(polaris_iptbl_t, bin_t, bin_t)

modutils_domtrans_insmod(polaris_iptbl_t)
nptables_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/netns as part of chvrf invocation
fs_read_netns_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: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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#
# March 2017, Victor Kamensky
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_tdlldb_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_conf(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_t, 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_var_t, {file dir, "auto_upgrade_helper.sh")
manage_files_pattern(polaris_autoupgrade_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/binos/conf/run_ioxn_caf.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)
/usr/binos/conf/iox_reset.sh -- gen_context(system_u:object_r:polaris_caf_exec_t,s0)

ifdef(`nyquist_platform',`
/usr/binos/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.dsk   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.dsk    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/binos/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
/bootflash/iox_alt_hdd_mount_dir(\.*?)
gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)

/gen_context(system_u:object_r:polaris_iox_alt_hdd_files_t,s0)
/flashcat/iox_cat(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flashcat/iox_cat_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flashcat/iox_cat_mount_dir(\.*)?
gen_context(system_u:object_r:polaris_iox_cat_tmp_files_t,s0)

/flashcat/iox_cat_mount_dir/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flashcat/iox_cat_mount_dir/iox_host_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flashcat/iox_cat_mount_dir/guest_share(\.*?)
gen_context(system_u:object_r:polaris_iox_shared_files_t,s0)
/flashcat/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
/flashcat(\.*?)
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)
/flash1/iox(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)

/flashcat/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)
/flash1/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/usb1/iox_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)

/flashcat/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)
/flash1/iox_host_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/flash11/iox_host_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/harddisk/iox_host_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/vol/disk0/iox_host_data_share(\.*?)
gen_context(system_u:object_r:polaris_iox_files_t,s0)
/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)
/var/log/caf/(\.*?)
gen_context(system_u:object_r:polaris_caf_log_t,s0)

/etc/guestshell_rsa_key\pub
gen_context(system_u:object_r:polaris_guestshell_ssh_key_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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# polarisfnfagg file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.fc
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#
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#
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## <summary>Polaris cmm Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmm.if
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#

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# polarisplodg file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplodg.fc
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dnl
dnl April 2018, Victor Kamensky
dnl
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dnl All rights reserved
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
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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.

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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 1ng 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)
/mnt/huge/cpp_ucode_dram     -- 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_tdlldb_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.

#
# March 2017, Victor Kamensky
#
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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/[r|f|c]/pvp/process_state files

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;')
polaris_pvp_manage_process_state_files(polaris_domain)

allow polaris_pvp_t self:capability sys_resource;

# readlink access to /proc/<pid>/fd/0 triggers sys_ptrace capability need
allow polaris_pvp_t self:capability { sys_ptrace };

dmidecode_domtrans(polaris_pvp_t)

#on some ngwc pvp has to code-sign-verify silent roll packages
ifdef('ngwc_family',"
polaris_code_verify_domtrans(polaris_pvp_t)
"
)polaris_btrace_data_manage_all(polaris_pvp_t)
polaris_chasfs_manage(polaris_pvp_t)
polaris_cpld_read(polaris_pvp_t)
polaris_cpld_write(polaris_pvp_t)
polaris_rmonbifo_read(polaris_pvp_t)
polaris_rmonbifo_tmp_read(polaris_pvp_t)
polaris_tldldb_list_dirs(polaris_pvp_t)
polaris_boot_tmp_read(polaris_pvp_t)
polaris_read_debug_conf(polaris_pvp_t)

# LOOK AT ME pvp.sh runs find over /proc. Needs access
# to state of all processes
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_stdin_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_link_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, 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_link(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_rw_rpc_sysctls to flush
files_manage_etc_files(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)
kernell_rw_rpc_sysctls(polaris_pvp_t)

# calls 'systemctl reboot'
systemd_start_power_services(polaris_pvp_t)

# pvp on lmg attempts to rm readonly fpd firmware file, not sure why
polaris_firmware_getattr(polaris_pvp_t)

# pvp reads /tmpIOSD_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)

# on ngwc platforms pvp creates a /obfl_cc directory and soft links it
# to the correct vbd device
ifdef(`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")
')

# on ngwc platforms pvp needs to be able to determine if the vbd devices
# exist. The types may be slightly different depending on whether the cc's
# device node is managed by udev or not
ifdef(`ngwc_family',`
  dev_getattr_generic_blk_files(polaris_pvp_t)
  storage_getattr_fixed_disk_dev(polaris_pvp_t)
  udev_read_db(polaris_pvp_t)
')

# on ngwc platforms pvp soft links the /tmp/sw/cc_srdriver/<slot> directory
# to the correct silent roll software package via vbd_sr_app_init()
ifdef(`ngwc_family',`
  polaris_sw_data_manage(polaris_pvp_t)
')

# on blackheart pvp creates /blackheart_config directory
ifdef(`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)
')

# on sparrow pvp creates /sparrow_config directory
ifdef(`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)
')

# on Aventus pvp creates /aventus_config directory
ifdef(`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_ncd.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/... 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)

coreneth_tcp_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(''
fsp_getattr_all_fs(polaris_pvp_t)
files_getattr_all_dirs(polaris_pvp_t)
fsp_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)
# 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 sysctrl_i2c.lck file

gen_require('type polaris_cm_rp_tmp_t;
')

files_tmp_filetrans(polaris_pvp_t, polaris_cm_rp_tmp_t, file, "sysctrl_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);
fsostools_manage_entry_files( polaris_pvp_t);
fsostools_exec( polaris_pvp_t);
polaris_rommon_device_read(polaris_pvp_t)
# dmesg writes to pd_info path
write_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
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dnl
dnl April 2018, Victor Kamensky
dnl
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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', `\(\text{defn}(\text{format}(`\text{ripc\_type\_map}[\%s]\', \`\$1\'))\))
define(`ripc_type_map_set', `\(\text{define}(\text{format}(`\text{ripc\_type\_map}[\%s]\', \`\$1\'), \`\$2\'))\))

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_ripc.m4
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#
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#

policy_module(polarisquack, 1.0);

###########################################################################

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# Quack Driver policy

```c

type polaris_quack_device_t;
dev_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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#
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#

# Polaris lua files
/lua/(.*)?(.*)\.lua            -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/usr/bin/os/conf/(.*)?(.*)\.lua-- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)?\.(.*)\.so        -- gen_context(system_u:object_r:lib_t,s0)
/lua/(.*)?\.(.*)            -d  gen_context(system_u:object_r:usr_t,s0)
/lua                        -d  gen_context(system_u:object_r:usr_t,s0)

# Polaris nginx lua files
/var/scripts/lua/(.*)?        -d  gen_context(system_u:object_r:polaris_lua_file_t,s0)
/var/scripts/lua/(.*)?        --  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)

/lua                        -- gen_context(system_u:object_r:polaris_lua_file_t,s0)
/lua/(.*)?                    -- 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
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#
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#
```

---

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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)

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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>
##
##
##
##
##
##<summary>
## #
## 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)
kernal_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)
kernal_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;

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kernel_read_irq_sysctls(polaris_$1_container_t)
kernell_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
fsUnmount_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)

optional_policy(`
tunable_policy(`virt_sandbox_use_audit',`
logging_send_audit_msgs(polaris_$1_container_t)
`)

userdom_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
polilars_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>

### $stem$

Stem for the domain. Name is constructed as polaris_stem_container_t

### <param name="stem">

### <summary>
## <param name="domain">

Domain allowed access.

### <summary>

### <param name="domain">

# interface('polaris_sandbox_file_read';

### 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)

### template('polaris_kvm_domain_template';

### gen_require(

### attribute virt_domain;

### type svirt_image_t;

### )

### 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;

### )

### # 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;

### )
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)
)

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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_utd_container', `
   allow $1 self:netlink_generic_socket client_stream_socket_perms;
`)

## <summary>
##      Allow domain transition
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_container_domtrans', `
   gen_require('polaris_iox_container_t;
   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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_iox_container_watch', `
   gen_require('tmpfs_t;
   type tmpfs_t;
   type container_file_t;
   type polaris_iox_container_t;
   ')
   domain_transition_pattern($1, container_file_t, polaris_iox_container_t)
`)

---

Open Source Used In Cat9K 17.7.1 9177
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">
Domain allowed access.
</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">
Domain allowed access.
</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
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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/dmammap -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>

########################################
## Make the specified domain able to manage tmp file created by ncd.sh like /tmp/etc/ncd_work_dir

```plaintext
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)
)
```

## Make the specified domain able to read tmp file created by ncd.sh like /tmp/ufs/crashinfo

```plaintext
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)
)
```

## Make the specified domain able to read etc file created by ncd.sh like /etc/conf/unifiedfs/mount_data

```plaintext
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)
)
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">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </param>
#
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 };

    corenet_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
#
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_cpld_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)
Open Source Used In Cat9K 17.7.1 9184

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-int -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):
dnl

January 2021, Vaibhav Lade

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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
#
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#

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_tdlresolve_read(polaris_oct_dp_log_rp_t)
polaris_tddlb_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_ripe_sman_ui_serv_connect(polaris_oct_dp_log_rp_t)

# direct access to serial TTY devices
# (octeon_dp_logger needs to acces /dev/ttyDASH7)
term_open_unallocated_ttys(polaris_oct_dp_log_rp_t)

Found in path(s):
* /opt/cola/permissions/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>
## </summary>
#
interface(polaris_iots_fpga_dev_use',"
    gen_require('``
        type device_t;
        type polaris_iots_fpga_device_t;
    )
    write_echr_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">
## Domain allowed access.
## </param>
## <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">
## Domain allowed access.
## </param>
## <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
## </summary>
## <param name="domain">
## Domain allowed access.
```c
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;
)

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)
)

interface('polaris_swipedrive_file_manage',
  gen_require(
    type polaris_iots_swipedrive_file_t;
  )
  manage_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
  manage_lnk_files_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)
)```

---

Open Source Used In Cat9K 17.7.1 9188
manage_dirs_pattern($1, polaris_iots_swipedrive_file_t, polaris_iots_swipedrive_file_t)

  )

###########################################################################
## <summary>
## Get the attributes of an swipe drive
## filesystem.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
# interface('polaris_getattr_swipedrive',
    gen_require(
        type polaris_iots_swipedrive_file_t;
    )

    allow $1 polaris_iots_swipedrive_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
########################################################

########################################################
## <summary>Open tdlresolve files</summary>
## <param name="domain">
##   <summary>Domain allowed access.</summary>
## </param>
## <rolebase/>
#
interface(`polaris_tdlresolve_read',
  gen_require(`
type polaris_tdlresolve_t;
`
  read_files_pattern($1, polaris_tdlresolve_t, polaris_tdlresolve_t)
  read_lnk_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;
Manage tdlresolve files

<summary>
Domain allowed access.
</summary>

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;
  )
)

Watch tdlresolve directories

<summary>
Domain allowed access.
</summary>

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
# # Copyright (c) 2018-2019 by Cisco Systems, Inc.
# # All rights reserved
#
/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
# # Copyright (c) 2020 by Cisco Systems, Inc.
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#

policy_module(polarishtx, 1.0);

gen_require(
    type polaris_h tx_t;
');
polaris_chasfs_read(polaris_h tx_t)
polaris_cpld_read(polaris_h tx_t)
polaris_tdlresolve_read(polaris_h tx_t)
polaris_ripc_sman_ui_serv_connect(polaris_h tx_t)

logging_send_syslog_msg(polaris_h tx_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_h tx_t)
corecmd_exec_bin(polaris_h tx_t)
auth_use_nsswitch(polaris_h tx_t)

# call posix_sysconf that opens /sys/devices/system/cpu/online
dev_read_sysfs(polaris_h tx_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_confd_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;
            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_htx_t self:capability net_raw;

# read and write /bootflash/cacert-ssl.pem
polaris_bootflash_manage(polaris_htx_t)
Open Source Used In Cat9K 17.7.1 9194

---

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#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris nginx Policy Rules.</summary>

### Program #1

- **domain**
  - Type to be used to run utility.

```plaintext
interface(`polaris_nginx_exec_domain',
  gen_require(`
type polaris_nginx_t;
')
)
```

### Program #2

- **domain**
  - Domain allowed to transition.

```plaintext
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)
)

*****************************************************************************
## <summary>
## Allow others to perform pipe operations on nginx files
## </summary>
## <param name="domain">
## Domain allowed to perform the operation
## </param>
#
# 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">
###   <summary>
###       Domain allowed access.
###   </summary>
### </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">
##   <summary>
##      Domain allowed access.
##   </summary>
## </param>
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>

###############################################################
### <summary>
###   Polaris cedgetanman Policy Rules. </summary>

###############################################################
### <summary>
## Read cedge tanman files and fifo_file. I.e /tmp/tan/tan_evt_fifo

```c
# <summary>
# <param name="domain">
# Domain allowed access.
# </summary>
#
```

```c
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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#

```c
# 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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#

```c
## <summary>Polaris bbu Policy Rules.</summary>
```

# November 2017, Victor Kamensky
#
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#

```c
## <summary>
```
## Work (read, write, ioctl) with /dev/ttyS2

```c
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

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#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisrollbacktimer Policy Rules.</summary>

```
interface('polaris_rbtimer_bootflash_manage',
    gen_require(''
        type polaris_disk_bootflash_t;
        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
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#
# 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
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#
# 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)
/usr/binos/conf/provision.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/binos/conf/issu_helper.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/issu/issu_check.sh -- gen_context(system_u:object_r:polaris_install_engine_exec_t,s0)
/usr/binos/conf/packtool.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
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#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisepcwsliaison, 1.0);

gen_require('type polaris_epc_ws_liaison_t;
')

polaris_btrace_data_manage(polaris_epc_ws_liaison_t)
polaris_crft_data_manage(polaris_epc_ws_liaison_t)
polaris_chasfs_manage(polaris_epc_ws_liaison_t)
polaris_tdlresolve_read(polaris_epc_ws_liaison_t)
polaris_tdlldb_list_dirs(polaris_epc_ws_liaison_t)
polaris_cpld_read(polaris_epc_ws_liaison_t)
polaris_flashlib_read(polaris_epc_ws_liaison_t)
polaris_ripc_sman_ui_serv_connect(polaris_epc_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, getattr 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 dumpcap 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 getattr 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 };  

dumpcap needs access "/tmp/epc_ws/wif_to_ts_pipe" fifo file
polaris_epc_ws_liaison_fifo_read(polaris_wireshark_show_t)

# comm="dumpcap" kmod="net-pf-16,proto-12"
kernel_request_load_module(polaris_wireshark_show_t)

# /tmp/*.pcapng

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
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# June 2020, Manu Roy
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#

policy_module(polaris_iotswitch, 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">
### Domain allowed access.
### </summary>
## <param name="domain">
## Domain allowed access.
## </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">
# Domain allowed access.
# </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_ncsshd_keys_t files, effectively files
# under /tmp/.ncsshd_authorized_keys
# </summary>
# <param name="domain">
# Domain allowed access.
# </param>
# interface('polaris_ncsshd_keys_manage',
  gen_require(
    type polaris_ncsshd_keys_t;
  ')
manage_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_lnk_files_pattern($1, polaris_ncsshd_keys_t, polaris_ncsshd_keys_t)
manage_dirs_pattern($1, polaris_ncsshhd_keys_t, polaris_ncsshhd_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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
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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
#
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#

policy_module(polarisdmincsshdmgmt, 1.0);

gen_require(`
  type polaris_dmi_ncsshd_mgmt_t;
')

polaris_btrace_data_manage(polaris_dmi_ncsshd_mgmt_t)
polaris_chasfs manage(polaris_dmi_ncsshd_mgmt_t)
polaris_tdlresolve_read(polaris_dmi_ncsshd_mgmt_t)
polaris_tdldb_list_dirs(polaris_dmi_ncsshd_mgmt_t)
polaris_flashlib_read(polaris_dmi_ncsshd_mgmt_t)

corenet_tcp_bind_generic_node(polaris_dmi_ncsshd_mgmt_t)
allow polaris_dmi_ncsshd_mgmt_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:udp_socket { getattr create connect read write }
allow polaris_dmi_ncsshd_mgmt_t self:cap_users { sys_admin net_bind_service }

  type polaris_dmi_ncsshd_mgmt_var_run_t;
  files_pid_file(polaris_dmi_ncsshd_mgmt_var_run_t)
manage_dirs_pattern(polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
manage_files_pattern(polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t, polaris_dmi_ncsshd_mgmt_var_run_t)
files_pid_filetrans(polaris_dmi_ncsshd_mgmt_var_run_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 flollowing 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_listen at mgmt/dmi/ncsshd/src/sshd.c
polaris_socketat_nfs_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)
corenet_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_ncsshdAuthorized_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
gen_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 opengetattr } 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 ncshdh_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>

```
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>
##      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>

## <summary>
##      Execute a domain transition to run pman.
## </summary>
## <param name="domain">
##      <summary>
##      The type of the process to transition to.
##      </summary>
## </param>
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface('polaris_pman_domtrans',`
gen_require(`
    type polaris_pman_t, polaris_pman_exec_t;
`)

domtrans_pattern($1, polaris_pman_exec_t, polaris_pman_t)
`)

########################################
## <summary>
## Read pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
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)
`)

########################################
## <summary>
## Manage pman temporary files and directories in /tmp.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
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_btgetattr',
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">
### <summary>
### Domain allowed access.
### </summary>
### </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
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#
# August 2017, Shawn Lu
#
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#

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_tdlldb_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_override;

allow polaris_wncmgrd_t self:tcp_socket { shutdown };

#allow wncmgrd UDP socket operations
allow polaris_wncmgrd_t self:udp_socket { bind getattr setopt };
corenet_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 and9091(polaris_wnc_mgrd_port)
corenet_tcp_bind_polaris_wnc_mgrd_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/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_default_config -> ewlc_get_ap_sw_version
polaris_wlc_ap_images_read(polaris_wncmgrd_t)

polaris_odm_clnt2svr_mqipc_create(polaris_wncmgrd_t)

polaris_tdldbpersist_setup(polaris_wncmgrd_t)

polaris_tmp_tdldb_persist_setup(polaris_wncmgrd_t)

logging_send_syslog_msg(polaris_wncmgrd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncmgrd_t)
corenet_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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# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
## <summary>Polaris NVRAM Policy Rules.</summary>

### <summary>NVRAM policy</summary>

```
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_link_files_pattern($1, polaris_nvram_file_t, polaris_nvram_file_t)
)
```

### <summary>Read nvr昌 files (location varies by platform)</summary>

```
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
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# # July 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
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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
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# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
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_monbifo_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.

#
# March 2017, Victor Kamensky
#
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#

# /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)
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_ssdUnmount.sh          gen_context(system_u:object_r:polaris_ssdUnmount_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)

# /flash2 macallan 9500h
/flash2(/.*)? gen_context(system_u:object_r:polaris_disk_harddisk_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
/flash5(/.*)? gen_context(system_u:object_r:polaris_disk_license_t,s0)

# /flash6 macallan, used for silent roll in macallan
# /flash6(/.*)? gen_context(system_u:object_r:polaris_disk_ucode_t,s0)

# /flash7 macallan, silent roll
# macallan silent roll link
/cc_srdrv gen_context(system_u:object_r:polaris_disk_bootflash_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)

# chdrvmmmap device (MMAP Driver for ASIC Memory mapping)
/dev/chdrvmmmap -c gen_context(system_u:object_r:polaris_chdrvmmmap_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/bin/os/bin/flash_check.sh -- gen_context(system_u:object_r:polaris_flashcheck_exec_t,s0)
    /usr/bin/os/bin/cman_fp -- gen_context(system_u:object_r:polaris_cm_fp_exec_t,s0)
    /usr/bin/os/bin/cmcc -- gen_context(system_u:object_r:polaris_cm_cc_exec_t,s0)
')
ifdef(`passport_platform',
    /usr/bin/os/bin/platform_mgr -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_exec_t,s0)
    /usr/bin/os/bin/xcvr_test -- gen_context(system_u:object_r:polaris_xcvr_test_exec_t,s0)
    /usr/bin/os/bin/sif_mgr -- gen_context(system_u:object_r:polaris_sif_mgr_exec_t,s0)
    /usr/bin/os/bin/cmm -- gen_context(system_u:object_r:polaris_cmm_exec_t,s0)
    /usr/bin/os/bin/bt_logger -- gen_context(system_u:object_r:polaris_bt_logger_exec_t,s0)
    /usr/bin/os/bin/torchd -- gen_context(system_u:object_r:polaris_torch_exec_t,s0)
    /usr/bin/os/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/rc.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/prometheus -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/skyfox -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/vulcan -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/intrepid -l gen_context(system_u:object_r:root_t,s0)

Open Source Used In Cat9K 17.7.1 9221
/platform-specific/martion -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/farscape -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/borg -l gen_context(system_u:object_r:root_t,s0)
/platform-specific/scorpion -l gen_context(system_u:object_r:root_t,s0)

# /dev/cisco/dplriomem device, Generic Memory map driver for mapping doppler IO memory to userspace
/dev/cisco/dplriomem -c gen_context(system_u:object_r:polaris_dplr_iomem_mmapdrv_device_t,s0)

/vol/disk0(/.*)?   gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# /appstore_hd is symbolic link to /vol/disk0
/appstore_hd -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /appstore_flash is symbolic link to /flash1
/appstore_flash -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /rp_srdrv is symbolic link to /flash6/DPU
/rp_srdrv -l 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)
# /install is symbolic link to /flash1/INSTALL
/install -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)
# /disk0 is symbolic link to /vol/disk0
/disk0 -l gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

# provide relabeling rules for /platform-specific/personality file
# otherwise, they cause conflicting specifications error during relabeling
/platform-specific/bigbang/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/nyquist/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/passport/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/starfleets/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/intrepid/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/martion/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/farscape/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/borg/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/scorpion/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/imperial/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)
/platform-specific/jura/lib/modules(/.*)? gen_context(system_u:object_r:modules_object_t,s0)

/platform-specific/bigbang/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/nyquist/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/passport/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/starfleets/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/intrepid/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/martion/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/farscape/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/borg/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/scorpion/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/imperial/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/jura/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/quake1/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
Open Source Used In Cat9K 17.7.1 9223

/platform-specific/quake2/lib/systemd/system(/.*)? gen_context(system_u:object_r:systemd_unit_file_t,s0)
/platform-specific/bigbang/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/nyquist/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/passport/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/starfleet/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/intrepid/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/martian/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/farscape/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/borg/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/scorpion/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/imperial/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/jura/usr/binos/conf(/.*)? gen_context(system_u:object_r:usr_t,s0)
/platform-specific/bigbang/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/nyquist/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/passport/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/starfleet/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/intrepid/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/martian/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/farscape/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/borg/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/scorpion/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/imperial/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/jura/usr/binos/bin(/.*)? gen_context(system_u:object_r:bin_t,s0)
/platform-specific/bigbang/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/nyquist/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/passport/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/starfleet/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/intrepid/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/martian/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_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/bigbang/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/nyquist/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/passport/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/starfleet/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/intrepid/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_t,s0)
/platform-specific/martian/etc/selinux(/.*)? gen_context(system_u:object_r:selinux_config_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)
# /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)
/platform-specific/quake1/etc/hosts[^/]*          -- gen_context(system_u:object_r:net_conf_t,s0)
/platform-specific/quake2/etc/hosts[^/]*          -- gen_context(system_u:object_r:net_conf_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)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.fc
No license file was found, but licenses were detected in source scan.

#  
# 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  

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

#  
# March 2017, Victor Kamensky  
#  
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#  
## <summary>Polaris repm Policy Rules.</summary>  

### <summary>Polaris repm Policy Rules.</summary>  

###############################  
### <summary>  
### Manage /tmp/replications files.  
### </summary>  
### <param name="domain">  
### <summary>  
### Domain allowed access.  
### </summary>  
### </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">  

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
##########################################################################
## <summary>
##	Create $2 mqipc chanell.
## </summary>
## <param name="domain">
##<summary>
## Domain allowed access.
## </summary>
## <infoflow type="none"/>
#
interface(``polaris_mqipc_$1_create_name'');`
gen_require(
    type $2;
    
    $3
  )

# Use $2 mqipc chanell.
#
## Domain allowed access.
## </param>
## </summary>
## </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',`dnl
  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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#

/dev/lsmpi -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app0 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app1 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/dev/lsmpi_app2 -c gen_context(system_u:object_r:polaris_lsmpi_device_t,s0)
/tmp/pi(/.*)? gen_context(system_u:object_r:polaris_pi_uds_t,s0)

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.

#
# November 2020, Christine Hwang
#
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#

policy_module(polarishbbu, 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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#
# February 2020, Victor Kamensky
#
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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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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policy_module(polariscliagent, 1.0);

gen_require(
	type polaris_cli_agent_t;
')

polaris_btrace_data_manage(polaris_cli_agent_t)
polaris_crft_data_manage(polaris_cli_agent_t)
polaris_chasfs_manage(polaris_cli_agent_t)
polaris_tdlresolve_read(polaris_cli_agent_t)
polaris_tdldb_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_tdldb_dir_use(polaris_cli_agent_t)
polaris_libciutil_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_manage(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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
# Copyright (c) 2016-2020 by Cisco Systems, Inc.
policy_module(polarisflashlib, 1.0);

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
gen_require('type init_t;')
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
type polaris_flash_shm_t;
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
No license file was found, but licenses were detected in source scan.

# July 2017, Victor Kamensky
#
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#

### <summary>Polaris CPLD Policy Rules.</summary>

# Quack Driver policy

# <summary>Quack Driver policy</summary>

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

#
# October 2017, Victor Kamensky
#
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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
No license file was found, but licenses were detected in source scan.

dnl
dnl Mar 2020, Manu Roy
dnl

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dnl

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

#
# October 2017, Victor Kamensky
#
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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_tdlldb_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_tdlldb_dir_use(polaris_wstatsd_t)

allow polaris_wstatsd_t self:capability dac_override;
allow polaris_wstatsd_t self:udp_socket { bind setoptgetattr };
corenet_udp_bind_generic_node(polaris_wstatsd_t)
corenet_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_tldlbd_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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#
# December 2019, Victor Kamensky
#
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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")
manage_files_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_t)
manage_dirs_pattern(polaris_fnf_agg_t, polaris_fnf_agg_tmp_t, polaris_fnf_agg_tmp_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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfnfagg.te
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#
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#
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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">"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)
# Open Source Used In Cat9K 17.7.1  9237

## <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)
)

######################################
## <summary>
## Manage /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##   <summary>
##       Domain allowed access.
##   </summary>
## </param>
#
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)
)

######################################
## <summary>
##  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>
## </param>
#
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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#
# March 2017, Victor Kamensky
#
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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)
/usr/bin/gdbserver -- gen_context(system_u:object_r:polaris_gdb_exec_t,s0)
/tmp/pman_ports(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
/tmp/fp/process(/.*)? gen_context(system_u:object_r:polaris_pman_tmp_t,s0)
dnl

dnl April 2018, Victor Kamensky

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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/polarispman.fc

No license file was found, but licenses were detected in source scan.
* /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_ld_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_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_monbifo_read(polaris_issu_stack_t)
polaris_monbifo_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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#  

policy_module(polarislsmpi, 1.0);

#########################################################################
# Polaris lsmpi
#########################################################################

type polaris_lsmpi_device_t;
dev_node(polaris_lsmpi_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/polarismpi.te
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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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#
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#
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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_list_dirs(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)
')

#ifndef(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
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#
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#
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### <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_lnk_files_pattern($1, polaris_droputil_tmp_t, polaris_droputil_tmp_t)
')
```

```
#
## Watch droputil_tmp directories
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
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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#
/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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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 Nyquist Platform Max Bay Limits
dnl
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 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(polarislscd, 1.0);

gen_require('  
    type polaris_tlscd_t;  
    type net_conf_t;  
')

polaris_btrace_data_manage(polaris_tlscd_t)
polaris_chasfs_manage(polaris_tlscd_t)
polaris_tdlresolve_read(polaris_tlscd_t)
polaris_tdlldb_list_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_db_tdlldb_dir_use(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/tlscd/iosd_to_tlscd_0_socket  
#/tmp/tlscd/tlscd_to_iosd_0_socket  
# IOSd and TLSCd exchange packet over these UDS socket, allow create/bind  
type polaris_tlscd_uds_t;  
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;
corenets_connect_all_ports(polaris_tlscd_t)

#error
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 All rights reserved
dnl
define(`polaris_database_aux',`dnl
type $1;
polaris_tdldb_type($1)
)
define(`polaris_database',`dnl
polaris_database_aux(database_label($1))
)
define(`polaris_database_process_aux_full',`dnl
gen_require(`
    type $2;
"
    polaris_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))
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_database_db_te.m4
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# January 2021, Gabriel Lee, Shawn Liu
#
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#

### <summary>Polaris ezmanage Policy Rules.</summary>

#########################################################################
### <summary>
### Transition to ezmanage
### </summary>
### <param name="domain">
### Domain allowed to transition.
### </summary>
### </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>
### <param name="domain">
### Domain allowed access.
### </summary>
### </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_lnk_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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#
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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/econfd2sysmgr-ipc handling
type polaris_econfd2sysmgr_tmp_t;
files_tmp_file(polaris_econfd2sysmgr_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_t, polaris_vconfd_cert_tmp_t, { file dir })
polaris_vconfd_cert_tmp_manage(polaris_vconfd_cert_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_conf_conf_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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedge.te
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#
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#

## <summary>Polaris CPLD Policy Rules.</summary>

### CPLD Driver policy

### Read cpld files in /sys directory

### <param name="domain">
### Domain allowed access.
### </param>

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 files in /sys directory

### <param name="domain">
### Domain allowed access.
### </param>


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 }
)

######################################
## <summary>
##      Work (read, write, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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;
)

######################################
## <summary>
##      Work (read, ioctl) with /dev/cpld
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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)

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
ifdef(`nanook_platform`,
type polaris_cfgmgr_t;
type polaris_cxp_t;
type polaris_dbgd_t;
type polaris_fpm_t;
type polaris_ftm_t;
type polaris_omp_t;
type polaris_sdavc_proxy_t;
type polaris_ttm_t;
type polaris_vdaemon_t;
type polaris_htx_t;
')

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)
kernel_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_fiiletrans(polaris_load_usbnet_tmp_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)

 IonicPage 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)
')

ifdef(`sumatra_platform',
    # During "show platform hardware msata status | lifetime" - msata_info.sh accesses /tmp/sata_status
    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)
) ')

jumbotron
# show platform hardware msata end
jumbotron

#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)

Found in path(s):
* /opt/cola/permits/1103963160_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)
')

################################################

## <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',
    gen_require(
        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',
    gen_require(
        type polaris_wireshark_show_tmp_t;
    ')
    manage_files_pattern($1, polaris_wireshark_show_tmp_t, polaris_wireshark_show_tmp_t)
')

########################################
## <summary>
## Create, read, and write temporary files.
##
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#
interface('polaris_epc_ws_liaison_tmp_file',
    gen_require(
        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 setgid
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/
polaris_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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#
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#
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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
dnl April 2018, Victor Kamensky
dnl
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dnl
divert(-1)

dnl
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);
# March 2017, Victor Kamensky
#
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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">
## <summary>Domain allowed access.
## </summary>
## </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">
## <summary>Domain allowed access.
## </summary>
## </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)
')

No license file was found, but licenses were detected in source scan.
### <summary>
### Manage dir/files of type polaris_vman_tmp_t (e.g., /tmp/cgroup.log)
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
#
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">
### Domain allowed access.
### </summary>
#
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">
### Domain allowed access.
### </summary>
#
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">
##    Domain allowed access.
## </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">
##    Domain allowed access.
## </param>
## <rolebase/>
#
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>

```c
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>

```c
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">
### </param>
## <summary>
## Allow domain to write to pipes connected to virtlogd_t.
## </summary>
## <param name="domain">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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">
##      <summary>
##      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">
##      <summary>
##      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
## <param name="domain">
##   <summary>
##   Domain allowed to transition.
##   </summary>
## </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">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
`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">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
`interface ('polaris_scansta_dev_use',`
   gen_require(`
       type device_t;
       type polaris_scansta_device_t;
   `)
)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisws.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/.*chasync(/.*)? gen_context(system_u:object_r:polaris_chasync_tmp_t,s0)
/vol/harddisk/sys_report(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/vol/harddisk/fp_cc_crash(/.*)? gen_context(system_u:object_r:polaris_chasync_files_t,s0)
/var/log/chasync(/.*)? gen_context(system_u:object_r:polaris_chasync_log_t,s0)
/usr/binos/conf/chasync.sh -- gen_context(system_u:object_r:polaris_chasync_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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#

/tmp/.CRDU_COMMAND_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/tmp/.CRDU_RESPONSE_PIPE gen_context(system_u:object_r:polaris_crdu_pipe_tmp_t,s0)
/usr/binos/conf/trans_ports_helper.sh -- gen_context(system_u:object_r:polaris_trans_ports_helper_exec_t,s0)
policy_module(polarissmand, 1.0);

gen_require(`
    type polaris_smand_t;
    type polaris_smand_exec_t;
`)

polaris_btrace_data_manage(polaris_smand_t)
polaris_crft_data_manage(polaris_smand_t)
polaris_chasfs_manage(polaris_smand_t)
polaris_tdlresolve_read(polaris_smand_t)
polaris_tdlldb_list_dirs(polaris_smand_t)
polaris_cpld_read(polaris_smand_t)
polaris_lua_read(polaris_smand_t)
polaris_flashlib_read(polaris_smand_t)
polaris_send_signal_to_bexecute(polaris_smand_t)
polaris_ripc_sman_ui_serv_connect(polaris_smand_t)
polaris_db_tdlldb_dir_use(polaris_smand_t)

type polaris_crdu_pipe_tmp_t;
files_tmp_file(polaris_crdu_pipe_tmp_t)
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDU_COMMANDPIPE")
files_tmp_filetrans(polaris_smand_t, polaris_crdu_pipe_tmp_t, fifo_file, ".CRDURESPONSEPIPE")
polaris_smand_crdu_pipe_manage(polaris_smand_t)

# work with /tmp/sman files

type polaris_smand_tmp_t;
files_tmp_file(polaris_smand_tmp_t)
manage_dirs_pattern(polaris_smand_tmp_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
manage_files_pattern(polaris_smand_tmp_t, polaris_smand_tmp_t, polaris_smand_tmp_t)
files_tmp_filetrans(polaris_smand_tmp_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=system_u:system_r:polaris_smand_t:s0
tcontext=system_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/binos/lib64" dev="/loop7"
ino=3456 scontext=system_u:system_r:polaris_smand_t:s0 tcontext=system_u:object_r:iso9660_t:s0 tclass=dir
# try to drop it latter
gen_require(
    type iso9660_t;)
allow polaris_smand_t iso9660_t:dir { search getattr };

polaris_dyn_cfg_tmp_read(polaris_smand_t)

corecmd_exec_shell(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

genv{`
  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_lnk(polaris_smand_t)
polaris_disk_bootflash_search(polaris_smand_t)

genv{`
  type rsync_t;
  `
}# upon exec rsync inherits smand's stdout/stderr fifo files
allow rsync_t polaris_smand_t:fifo_file write;

genv{`
  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)
# getattrs 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_nfsfs_files(polaris_trans_ports_helper_t)

# lsof 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 sysemd
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_lnk_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 deny 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)
)

# 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
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
## <summary>Polaris mobilityd Policy Rules.</summary>

```
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(polaris_extended_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## <//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;
    ')
)

d 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
#
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#
/usr/binos/conf/btdecode -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/bttail -- gen_context(system_u:object_r:polaris_btdecode_exec_t,s0)
/usr/binos/conf/mcp_trace_filter.sh -- gen_context(system_u:object_r:polaris_trace_filter_exec_t,s0)
/usr/binos/conf/mcp_trace_request.sh -- gen_context(system_u:object_r:polaris_trace_request_exec_t,s0)
/usr/binos/bin/create_luid_file_db -- gen_context(system_u:object_r:polaris_createldb_exec_t,s0)
/tmp/btrace_luids_file.cdb.tmp -- gen_context(system_u:object_r:polaris_lodb_tmp_t,s0)
/tmp/btrace_luids_file.cdb -- gen_context(system_u:object_r:polaris_lodb_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)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.fc
No license file was found, but licenses were detected in source scan.

#
# 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_ldlresolve_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)
manage_files_pattern(polaris_dbgd_t, polaris_dbgd_var_run_t, polaris_dbgd_var_run_t)
manage_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
No license file was found, but licenses were detected in source scan.

#
# 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>
## <summary>
## Work (read, write, ioctl) with /dev/blzi_fpga
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

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

#
# 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_tdldb_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:system_r:polaris_cpp_driver_t:s0 tcontext=system_u:object_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
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
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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(polarisbrtrace, 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)

typeattribute polaris_btrace_base_t polaris_btrace_data_domain;
typeattribute polaris_btrace_data_t polaris_btrace_data_domain;

# is "trace" in tmp_t specific enough? Maybe we would need to change it in polaris
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")

---

Open Source Used In Cat9K 17.7.1 9291
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")
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;
')
domtrans_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)

type polaris ldb tmp_t;
files tmp file(polaris ldb tmp t)
files tmp filetrans(polaris create ldb t, polaris ldb tmp t, file)
manage files pattern(polaris btdecode t, polaris ldb tmp t, file)
mmap files pattern(polaris create ldb t, polaris create ldb t, polaris create ldb t)
polaris use bttrace 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/bin/sbin/in.telnetd
gen_require(
    type telnetd_exec_t;
)
allow polaris btdecode t telnetd_exec_t:file { getattr open read };

polaris utility domain template(trace_filter)
polaris bexecute domtrans(polaris trace_filter t)
polaris bexecute domain(polaris trace_filter t, polaris trace_filter exec t)
# mcp_trace_filter.sh runs with telnet /dev/ptyN as
# stdin/stdout if on standby
telnet use ptys(polaris trace_filter t)

# script starts rsync with mcp_chvrf.sh
polaris chvrf domtrans(polaris trace_filter t)

allow polaris trace_filter t self:capability { dac Override sys resource };

# access /tmp/sw/boot/pkginfo
# awk -v what = ^BuildPath: $pkginfo_file ~ what { print $2 } /tmp/sw/boot/pkginfo
polaris boot tmp read(polaris trace_filter t)
polaris chasfs read(polaris trace_filter t)
polaris disk bootflash read lnk(polaris trace_filter t)
polaris disk crashinfogetattr(polaris trace_filter t)
polaris_bootflash_manage(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/tldldb" 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)

# CLI: monitor log profile <iwan | wireless | wired ..>
# invokes.../bin/sh /usr/bin/os/conf/mcp_trace_request.sh --operation monitor

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)

fsgetattr_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/mtr_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_files(polaris_trace_request_t)

# Allow ls /tmp/ufs/harddisk
optional_policy(
    polaris_nctd_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 };

############################################################################
type polaris_btrace_tmpfs_t;
files_tmpfs_file(polaris_btrace_tmpfs_t)

# Btrace semaphore created by systemd-tmpfiles needs map permission
gen_require(
    type systemd_tmpfiles_t;
    )
mmap_files_pattern(systemd_tmpfiles_t, polaris_btrace_tmpfs_t, polaris_btrace_tmpfs_t)

# Allow polaris processes to manage level config files in tracelogs persistent
# directory like /bootflash/tracelogs/level_config
type polaris_btrace_lvl_config_t;
files_type(polaris_btrace_lvl_config_t)

attribute polaris_domain;

polaris_btrace_lvl_config_manage(polaris_domain)

optional_policy(
    polaris_cedge_tanman_tmp_manage(polaris_btdecode_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtrace.te
No license file was found, but licenses were detected in source scan.
# March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
# 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_mmonbifo_tmp_read(polaris_bexecute_t)
polaris_proc_mmonbifo_read(polaris_bexecute_t)
polaris_dyncfg_tmp_read(polaris_bexecute_t)
polaris_read_debug_conf(polaris_bexecute_t)
polaris_tdldb_list_dirs(polaris_bexecute_t)
polaris_disk_bootflash_read_lnk(polaris_bexecute_t)
polaris_disk_harbdisk_read_lnk(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_rwlock;
')
read_lnk_files_pattern(polaris_bexecute_t, tftpdir_rwlock, tftpdir_rwlock)

# tries to do mkdir -p /tmp/proc/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:ability { chown setgid setuid fowner net_admin }
allow polaris_bexecute_t self:process { setgid setcap }

# temporary files created by bexecute like /tmp/get_status_type_pkg_list.rp-1-0-0.20170707094059.out.log
type 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_tmmppub_manage(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 PROMETHION-L"
gen_require(
    type polaris_cm_rp_t;
')
allow polaris_chvrf_t polaris_cm_rp_t:tcp_socket ioctl;

# 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_ncsshd_fwd_t;
')
allow polaris_chvrf_t polaris_dmi_ncsshd_fwd_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)
)

###########################################################################
# chvrf
###########################################################################
corecmd_exec_bin(polaris_chvrf_t)
# allow read of /etc/passwd
auth_use_nsswitch(polaris_chvrf_t)

# read polaris vrf net namespace file(s) /var/run/netns/0
fs_read_nsfs_files(polaris_chvrf_t)

# write into pipe that various binos processes created for us with popen
polaris_smand_use_fifo(polaris_chvrf_t)
polaris_hman_use_fifo(polaris_chvrf_t)
polaris_dmiauthd_use_fifo(polaris_chvrf_t)
optional_policy(
    polaris_cmrp_use_fifo(polaris_chvrf_t)
)
optional_policy(
    polaris_dmi_ncsshd_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_managet(polaris_chvrf_t)
polaris_autoupgrade_tmp_manager(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_managet(polaris_chvrf_t)
polaris_autoupgrade_tmp_manager(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_managet(polaris_chvrf_t)
polaris_autoupgrade_tmp_manager(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 chasfs
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;
')
rsync_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_tmp_file(polaris_platform_shell_tmp_t)
files_tmp_filetrans(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, "system_shell_access_logs")
manage_dirs_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, dir, polaris_platform_shell_tmp_t)
manage_files_pattern(polaris_platform_shell_t, polaris_platform_shell_tmp_t, polaris_platform_shell_tmp_t)

# read /proc/cmdline
kernel_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
# btelnet 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 };
corenets_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
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/bin/os/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/bin/os/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_iosd_dgram_send(polaris_ioucon_t)
polaris_iosd_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_confdomtrans(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/binos/conf/ngio_module_session.sh, eventually invoking
# open64.
polaris_utility_domain_template(ngio_module_session)
polaris_bexecute_domain(ngio_module_session_t, ngio_module_session_exec_t)
corecmd_exec_bin(ngio_module_session_t)
polaris_bexecute_domtrans(ngio_module_session_t)
term_use_unallocated_ttys(ngio_module_session_t)
dev_read_sysfs(ngio_module_session_t)
allow ngio_module_session_t self:process setsched;
auth_map_passwd(ngio_module_session_t)
polaris_chasfs_read(ngio_module_session_t)
polaris_cpld_read(ngio_module_session_t)
telnet_use_ptys(ngio_module_session_t)

# work with /tmp files
type ngio_module_session_tmp_t;
files_tmp_file(ngio_module_session_tmp_t)
manage_dirs_pattern(ngio_module_session_t, tmp_t, ngio_module_session_tmp_t)
manage_files_pattern(ngio_module_session_t, tmp_t, 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)

# execute 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 ~ what { print $2 } /tmp/sw/rp/0/0/rp_security/mount/.pkginfo
polaris_read_packages_conf(polaris_bexecute_t)
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/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"
sysnet_domtrans_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_confed_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)
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_tmp_t)
manage_files_pattern(polaris_mcp_dmesg_t, polaris_mcp_dmesg_tmp_t, file)
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.

#
# March 2017, Victor Kamensky
#
policy_module(polarisdbm, 1.0);

gen_require(
    type polaris_dbm_t;
')

ifdef(`nyquist_platform',`
    type polaris_bt_logger_dbm_mqipc_t;
')

polaris_mqipc_create_name(polaris_dbm_t, polaris_bt_logger_dbm_mqipc_t, bt_logger_dbm)

polaris_btrace_data_manage(polaris_dbm_t)
polaris_crf_data_manage(polaris_dbm_t)
polaris_chasfs_manage(polaris_dbm_t)
polaris_tdlresolve_read(polaris_dbm_t)
polaris_tdlldb_list_dirs(polaris_dbm_t)
polaris_cpld_read(polaris_dbm_t)
polaris_flashlib_read(polaris_dbm_t)
polaris_ripc_sman_ui_serv_connect(polaris_dbm_t)
polaris_db_tdlldb_dir_use(polaris_dbm_t)
polaris_libeiutil_build_config_directory(polaris_dbm_t)
polaris_cfg_data_manage(polaris_dbm_t)

allow polaris_dbm_t self:capability { sys_resource };
allow polaris_dbm_t self:process setrlimit;

# dbm listen on 9090 port; in case of ultra only in tcp6
corenet_tcp_bind_websm_port(polaris_dbm_t)
polaris_dyncfg_tmp_read(polaris_dbm_t)

allow polaris_dbm_t self:capability dac_override;
# port 9090, is it exclusively wnc_mgrd port?
corenet_tcp_bind_polaris_wnc_mgrd_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_tlddb_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
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#   # Sep 2020, Sridhar C
#   # Copyright (c) 2020-2021 by Cisco Systems, Inc.
#   # All rights reserved
#   /tmp/tlscd(/.*)? gen_context(system_u:object_r:polaris_tlscd_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

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#
# April 2017, Victor Kamensky
#
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#
policy_module(polarisdmincssshdfwd, 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, polaris_dmi_ncsshd_log_t)
manage_sock_files_pattern(polaris_dmi_ncsshd_fwd_t, polaris_dmi_ncsshd_log_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_confdomtrans(polaris_dmi_ncsshd_fwd_t)

# starts bexec.sh
polaris_bexec_domtrans(polaris_dmi_ncsshd_fwd_t)
polaris_send_signal_to_bexec(polaris_dmi_ncsshd_fwd_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshd_fwd.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.sh
/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.

#
# July 2017, Victor Kamensky
#
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#
## <summary>Polaris bexecute Policy Rules.</summary>

############################
##	Execute bexecute in the polaris_bexecute domain.
##
##
## <summary>Polaris bexecute Policy Rules.</summary>

###############################################
##
## <summary>
##
## <summary>
##Execute bexecute in the polaris_bexecute domain.
##
## <summary>
## <param name="domain">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
interface(`polaris_bexecute_domtrans`,
gen_require(`
type polaris_bexecute_t, polaris_bexecute_exec_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">
## <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_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.
## </summary>
## </param>
# 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>  
## <param name="domain">  
##     <summary>  
##     Domain allowed access.  
##     </summary>  
## </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>  
##<param name="domain">  
##<summary>  
##Domain allowed to transition.  
##</summary>  
##</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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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">
## 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)
'

########################################

## <summary>
##      Send messages to ioucon unix datagram sockets.
## </summary>

## <param name="domain">
##      Domain allowed access.
## </param>

interface(`polaris_ioucon_dgram_send',
    gen_require(`
        type polaris_ioucon_t;
    ')

    allow $1 polaris_ioucon_t:unix_dgram_socket sendto;
'

########################################

## <summary>
##     Execute cat9k-primary-capsule-upgrade.sh , cat9k-capsule-upgrade.sh in its own domain.
## </summary>

## <param name="domain">
##      Domain allowed to transition.
## </param>

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">
## Domain allowed access.
## </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;
')

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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#
# March 2017, Victor Kamensky
#
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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_tdldb_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_tdldb_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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#

## <summary>Polaris gnmib Policy Rules.</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_ndbutil_lock_t;
      type polaris_gnmib_ndbutil_t;
filetrans_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t, file, $2)
manage_files_pattern($1, polaris_confd_ndbutil_lock_t, polaris_gnmib_ndbutil_t)

allow $1 polaris_gnmib_ndbutil_t:file { watch watch_reads };

########################################
## <summary>
##  Allow reading gnoi image files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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)
`

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisgnmib.if
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#
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#

policy_module(polaristdlldb, 1.0);

******************************************************************************
# Polaris tdlldb (infra/tdllib)
******************************************************************************
type polaris_tdlldb_t;
polaris_tdlldb_type(polaris_tdlldb_t)

attribute polaris_tdlldb;

# any process creating tdlldb in /tmp/rp/tdldb should transition into its domain
gen_require(''
   attribute domain;
')
files_tmp_filetrans(domain, polaris_tdlldb_t, dir, "tdldb")

# DB_DIR database is not described in TDL
type polaris_dir_db_tdlldb_t;
polaris_tdlldb_type(polaris_dir_db_tdlldb_t)

type polaris_tdlldb_persist_t;
polaris_tdlldb_type(polaris_tdlldb_persist_t)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlldb.te

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#
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#

policy_module(polarislfts, 1.0);

******************************************************************************
# Polaris lfts
******************************************************************************
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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#
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#

/var/tmp/trace/nginx_access.log gen_context(system_u:object_r:httpd_log_t, s0)
/var/tmp/trace/nginx_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_translate_exec_t, s0)
/var/scripts/python/aireosConfigTranslator(/.*)? --
gen_context(system_u:object_r:polaris_aireosTranslator_scripts_t, s0)
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_libciutil_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_confd_shm_setup(polaris_mdt_pubd_t)
# and allow read shared schema
polaris_conf_read(polaris_mdt_pubd_t)
# read /proc/confd_pid/exe file
polaris_conf_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)
corenet_tcp_connect_all_ports(polaris_mdt_pubd_t)

polaris_nzbload_lock_use(polaris_mdt_pubd_t)
corenet_tcp_connect_polaris_pttcd_port(polaris_mdt_pubd_t)
corenet_tcp_bind_polaris_netconf_interceptor_port(polaris_mdt_pubd_t)
corenet_tcp_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_conf_ndbutil_create(polaris_mdt_pubd_t)

polaris_nzbutil_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, polaris_mdt_pubd_tmp_t)

# from evconfd_dynamic_load
polaris_conf_read(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_tlddbpersist_setup(polaris_mdt_pubd_t)
polaris_tmp_tldhb_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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#
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#
#
# polarisstackmgr file contexts place holder

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisstackmgr.fc
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dnl
dnl Mar 2020, Manu Roy
dnl
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dnl
dnl Hellcat 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/hellcatmaps.m4
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#
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#

policy_module(polarisperiodic, 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_ld_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)
polaris_persistent_manage(polaris_periodic_t)

# reads /tmp/issu_proc
polaris_install_tmp_read(polaris_periodic_t)

optional_policy(
polaris_nccd_tmp_read(polaris_periodic_t)
)

# "install add file" CLI triggers logger sending syslog messages
logging_send_syslog_msg(polaris_periodic_t)


# 
# /usr/bin/os/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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/
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#
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#

/tmp/pm_post_result -- gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t:s0)
/tmp/microcode_update(/.*)?  gen_context(system_u:object_r:polaris_ngwc_plfm_mgr_tmp_t:s0)

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#
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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_tldldb_dir_use(polaris_fpm_t)  

logging_send_syslog_msg(polaris_fpm_t)  

# vconfd_load_shared_schemas  
polaris_confdf_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  
develop_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)  
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_1615183271.10/selinux-tar/selinux/polarisfpm.te
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dnl
dnl April 2018, Victor Kamensky
dnl
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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')

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(polarisplatformipcauto, 1.0);
Open Source Used In Cat9K 17.7.1 9334

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_te.m4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

## <summary>Polaris polarisbhytoolsd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbhytoolsd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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>

#
#<param name="domain">
## <summary>
## 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
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
# # All rights reserved
#

### <summary>Polaris CYAN Policy Rules.</summary>

```
#######################################
## <summary>
##	Execute dyncfg in the dyncfg domain.
## </summary>
## <param name="domain">
##<summary>
##<param name="domain">
##
##<summary>
##</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)
')
```
Open Source Used In Cat9K 17.7.1  9336

########################################
## <summary>
##      Make the specified domain able to read tmp file created by
cyan_init.sh like /tmp/cyan mono.cdb
## </summary>
## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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)`)
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(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_clpld_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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polariscppcp.te
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(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_tdlresolve_read(polaris_cpp_stats_t)
polaris_tdlldb_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(
  polarisCBDma_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
No license file was found, but licenses were detected in source scan.

#
# 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_dataManage(polaris_lm_t)
polaris_chasfs_manage(polaris_lm_t)
polaris_tdlresolve_read(polaris_lm_t)
polaris_t胁db_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
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#
# 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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# All rights reserved
#
policy_module(polarislipc, 1.0);

##################################################################################################################################
# LIPC policy

```csharp
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

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# September 2018, Anubha Balani
#
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#

```csharp
## <summary>Polaris Memory Service Policy Rules.</summary>

# Polaris memory: libmaroon and such

```

```csharp
### <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">
### Domain allowed access.
```
interface('polaris_ksm_run_check',
    gen_require(
        type systemd_unit_file_t;
    )
)

ggetattr_files_pattern($1, systemd_unit_file_t, systemd_unit_file_t)

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_files_pattern($1, polaris_maroon_base_t, polaris_maroon_base_t)

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
#
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# All rights reserved
#
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'
fs_getattr_tmpfs(polaris_reflector_t)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisreflector.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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# All rights reserved
#

policy_module(polarispman, 1.0);

polaris_process_domain_template(pman)

# reassess all permissions granted here for new pman
# - do we clone this domain to pman, 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")

# pcost 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 setpgid in its make_child function
allow polaris_pman_t self:process { setpgid };

# pmanlite uses getsid
allow polaris_pman_t self:process { getsid };

# 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_uode_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_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "wlc_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "utah_uode_image")
files_tmp_filetrans({ initrc_t init_t }, polaris_pman_tmp_t, file, "fugazi_uode_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_signull_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(''
ccontainer_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/binos/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)  
')

# File description leaks for TDL db lock files as processes are managed by  
# pman.  
# TODO Eventually these fd leaks should be fixed in the calling processes  
# 
# Note that TDL db lock file interfaces are typically generated by TDL and  
# are not found in our local .if files  
polaris_tdlresolve_read(polaris_pman_t)  
polaris_db_tdl_db_ios_oper_use(polaris_pman_t)

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  
corenets_tacp_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',`
corenet_tcp_bind_generic_node(polaris_pman_t)
corenet_udp_bind_generic_node(polaris_pman_t)
corenet_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', 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/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">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </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)
   )
#
# # xcopy progress temp file access
## <summary>
##     xcopy progress temp file access
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
## <rolebase/>
#
# interface(`polaris_xcopy_tmp_manage',
   gen_require(
       type polaris_xcopy_tmp_t;
   )
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#
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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 ncsshda
## </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_nccshd_mgmt_domtrans',
  gen_require(' type polaris_dmi_nccshd_mgmt_t, polaris_dmi_nccshd_mgmt_exec_t;
')
dontrans_pattern($1, polaris_dmi_nccshd_mgmt_exec_t, polaris_dmi_nccshd_mgmt_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmincsshdmgmt.if
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#

### <summary>Polaris cm_rp Policy Rules.</summary>

####################################################################
###
### Execute cmd_fp in the polaris_cm_fp_t domain.
###
### </summary>
###
### <param name="domain">
###
### Domain allowed to transition.
###
### </summary>
###
### </param>
#
interface('polaris_cm_rp_domtrans',
gen_require(
    type 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)
')

####################################################################
###
### Write into fifo file created by cmrp, typical case when
### cmrp starts script under popen.
###
### </summary>
###
### <param name="domain">
###
### 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)
`)
## Write into /tmp/codesign.txt file created by cm_rp
## <summary>
## <param name="domain">
## Domain allowed to transition.
## </summary>
## </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)
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.if
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# February 2020, Victor Kamensky
#
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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
dev_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 initialze 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 create getattr getopt 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_confdomtrans(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_nchshd opens VDAEMON_NCSSHD_AUTH_KEY_FILE file
polaris_nchshd_keys_manage(polaris_vdaemon_t)
# vbond_encode_version opens /etc/version
polaris_confdometc_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
dnl
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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
list of all subjects that should be in confined mode
dnl
confined_domain_set(`polaris_iosd_t', `polaris_iosd_t')

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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#
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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

domain_read_all_domains_state(polaris_rbtimer_t)
dev_read_sysfs(polaris_rbtimer_t)

#rollbacktimer runs install_engine.sh
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;

# access to /tmp/ufs//crashinfo
optional_policy(`
polaris_ncd_tmp_read(polaris_rbtimer_t)
`)

# access to read packages.conf
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"
# 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(polarisbhytoolsd, 1.0);

polaris_process_domain_template(bhytoolsd)

polaris_btrace_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/polarisbhytoolsd.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_crft_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_cpld_read(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_tdlldb_persist_setup(polaris_mobilityd_t)
polaris_tdlldbPersist_setup(polaris_mobilityd_t)
corenet_udp_bind_generic_node(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobiility_ctl_port(polaris_mobilityd_t)
corenet_udp_bind_polaris_mobiility_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/bin/os/conf/wui-lighttpd-launch.sh -- gen_context(system_u:object_r:polaris_webui_lighttpd_exec_t,s0)

/usr/bin/os/conf/wui-app-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)
/usr/binos/conf/wui-tipc-launch.sh -- gen_context(system_u:object_r:polaris_webui_exec_t,s0)

/webui/(.*)? gen_context(system_u:object_r:polaris_webui_file_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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#

/tmp\DmiAuth\socket -s gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_t,s0)
/tmp/netconf-yang-diag/(.*)? gen_context(system_u:object_r:polaris_dmi_dmiauthd_tmp_diags_t,s0)
/usr/binos/conf/dmid_diag_logs.sh -- gen_context(system_u:object_r:polaris_dmid_diag_logs_exec_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmidmialauthd.fc
No license file was found, but licenses were detected in source scan.

#
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#
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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>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispttcd.if
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
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#

/usr/binos/conf/oom.sh -- gen_context(system_u:object_r:polaris_oom_exec_t,s0)

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisoom.fc
No license file was found, but licenses were detected in source scan.

#
# July 2020, Swati Kumari
# # Copyright (c) 2020 by Cisco Systems, Inc.
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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;

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisptpdrp.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

/tmp/lsn.log -- gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

/tmp/epc_ws(/.*)? gen_context(system_u:object_r:polaris_epc_ws_liaison_tmp_t,s0)

# 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_rmonbifo_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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# March 2017, Victor Kamensky
#
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#
#
## <summary>Polaris Rmonbifo Policy Rules.</summary>

################################################################################
# Polaris Rmonbifo Driver policy
################################################################################

################################################################################
## <summary>
##      Read /proc/rmonbifo files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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/rmonbifo files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
Open Source Used In Cat9K 17.7.1 9372

## <summary>
##      Read /tmp/sw/boot/rmbonbifo files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_rmonbifo_tmp_read',
gen_require(`
type polaris_rmonbifo_tmp_t;

read_files_pattern($1, polaris_rmonbifo_tmp_t, polaris_rmonbifo_tmp_t)
# /tmp/sw/boot/rmbonbifo 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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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_ufs_helper_exec_t,s0)

/usr/binos/conf/iosd_console_attach.sh -- gen_context(system_u:object_r:polaris_console_attach_exec_t,s0)

/usr/binos/conf/unifiedfs/unifiedfs_helper.sh -- gen_context(system_u:object_r:polaris_ufs_helper_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.

# March 2017, Victor Kamensky
#
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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">
##      <summary>
##      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">
##      <summary>
##      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>
## </summary>
## <summary>
##      Create domain for IOSD Polaris processes. Note depending on policy build setting it could be confined or
##      not confined
## </summary>
## <summary>
##      Create domain for IOSD Polaris processes. Note depending on policy build setting it could be confined or
##      not confined
## </summary>
## <summary>
##      Create domain for IOSD Polaris processes. Note depending on policy build setting it could be confined or
##      not confined
## </summary>

Open Source Used In Cat9K 17.7.1 9373
interface(`polaris_iosd_domain',
    polaris_process_domain_confined($1, $2)
    polaris_iosd_maybe_unconfined($1)
)

interface(`polaris_iosd2iox_tmp_manage',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    )
    manage_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
)

interface(`polaris_iosd2iox_tmp_read',
    gen_require(
        type polaris_iosd2iox_tmp_t;
    )
    read_files_pattern($1, polaris_iosd2iox_tmp_t, polaris_iosd2iox_tmp_t)
)

## Send messages to iosd unix datagram sockets.

## <summary>
## Make the specified domain able to work with iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </param>

## <summary>
## Make the specified domain able to read iosd2iox files
## </summary>
## <param name="type">
## Domain allowed access.
## </param>

## Send messages to iosd unix datagram sockets.
## </summary>
# Interface `polaris_iosd_dgram_send`

```c
int polaris_iosd_dgram_send(polaris_t *this, const char *msg, size_t len);
```

## Parameters

- `this`: Pointer to the `polaris_t` instance.
- `msg`: Pointer to the message buffer.
- `len`: Length of the message in bytes.

### Summary

Domain allowed access.

```c
gen_require('polaris_t',
    type polaris_t;
)
```

## Interface

### Summary

Make the specified domain to read /tmp/rp/.iosp_dmiauthd

```c
read_files_pattern($1, polaris_dmiauthd_token_t, polaris_dmiauthd_token_t)
```

## Interface

### Summary

Make the specified domain to read /tmp/rp/.iosp_gnmib

```c
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>
#
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`
## or `/csl_p_0/vcpu_template.txt`
## </summary>


## <param name="type">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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_tmp_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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#
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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
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#
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#
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#

### <summary>Polaris iomd Policy Rules.</summary>
### <summary>
### Work (read, write, ioctl) with /dev/ngio[0-9+] devices
### </summary>

```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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#

policy_module(polarisrepm, 1.0);

gen_require(
    type polaris_repm_t;
)

polaris_btrace_data_manage(polaris_repm_t)
polaris_crft_data_manage(polaris_repm_t)
polaris_chasfs_manage(polaris_repm_t)
polaris_tdlresolve_read(polaris_repm_t)
polaris_tdlldb_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_tlddb_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
begin
  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)
end

polaris_dyncfg_tmp_read(polaris_repm_t)

polaris_tlldbipersist_setup(polaris_repm_t)

polaris_tmp_tlldb_persist_setup(polaris_repm_t)

# send syslog
logging_send_syslog_msg(polaris_repm_t)

# mq.-local_rp_1_0
begin
  type polaris_repm_local_rp_mqipc_t;
  polaris_mqipc_type(polaris_repm_local_rp_mqipc_t)
end

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
begin
  type polaris_repm_peer_mqipc_t;
  polaris_mqipc_type(polaris_repm_peer_mqipc_t)
end

polaris_mqipc_create_name(polaris_repm_t, polaris_repm_peer_mqipc_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)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.te
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#

## <summary>Polaris NGWC Platform Policy Rules.</summary>

----------------------------------------------------------------------------------
## <summary>
##      Manage ngwc shared memory /dev/shm/ngwc_shm.
## </summary>
## <param name="domain">
##      <summary>
##      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:file 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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# interface('polaris_ngwc_scc_shm_manage',


gen_require('  
    type tmpfs_t;  
    type polaris_ngwc_scc_shm_t;  
')
fs_getattr_tmpfs($1)
manage_files_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t)
allow $1 polaris_ngwc_scc_shm_t:file map;
filetrans_pattern($1, tmpfs_t, polaris_ngwc_scc_shm_t, file, "ngwc_scc_shm")
')

############################################################
## <summary>
##      Manage ngwc shared memory /dev/shm/iomd_to_fed_ptp_offload.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_ngwc_itfpo_manage',`
    gen_require('  
        type tmpfs_t;  
        type polaris_ngwc_itfpo_t;  
    ')
    fs_getattr_tmpfs($1)
    manage_files_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t)
    allow $1 polaris_ngwc_itfpo_t:file map;
    filetrans_pattern($1, tmpfs_t, polaris_ngwc_itfpo_t, file, "iomd_to_fed_ptp_offload")
')

############################################################
## <summary>
##      Manage ngwc sdm shared memory /dev/shm/sdm.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_sdm_shm_manage',`
    gen_require('  
        type tmpfs_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;
)

 FEEDBACK STATUS REPORT
Open Source Used In Cat9K 17.7.1  9383

# MMAP Driver for mapping ASIC Memory space

="/dev/chdrvmmap"

interface('polaris_chdrvmmap_dev_use',
gen_require('type device_t;
type polaris_chdrvmmap_device_t;
')
read_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
write_chr_files_pattern($1, device_t, polaris_chdrvmmap_device_t)
allow $1 polaris_chdrvmmap_device_t:chr_file map;
')

="/dev/gettysburg_dev1"

interface('polaris_gettysburg_fpga_dev_use',
gen_require('type device_t;
type polaris_gettysburg_fpga_device_t;
')
write_chr_files_pattern($1, device_t, polaris_gettysburg_fpga_device_t)
read_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/dprliomem
## </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">
##
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)
)

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 };
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_ssdUnmount.sh
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_ssdUnmount_domtrans',
#    gen_require(
    type polaris_ssdUnmount_t, polaris_ssdUnmount_exec_t;
  
)  
domtrans_pattern($1, polaris_ssdUnmount_exec_t, polaris_ssdUnmount_t)
  )

########################################
## <summary>
## Read lnk_file /ucode0, polaris_disk_ucode0_t.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </param>
#
# interface('polaris_disk_ucode0_read_lnk',
#    gen_require(
    type polaris_disk_ucode0_t;
  
)  
read_lnk_files_pattern($1, polaris_disk_ucode0_exec_t, polaris_disk_ucode0_t)
  )

########################################
## <summary>
## Work (read, write, ioctl) with /dev/cisco/fpgaiomem
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed access.
##   </summary>
## </summary>
interface('polaris_fpga_iomem_mmapfpga_dev_use',
    
    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)
)

interface('polaris_nplusm_power_manage',
    
    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 };
)

---

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---

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwc.if

---

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---

```bash
/usr/binos/conf/install_issu_monitor.sh -- gen_context(system_u:object_r:polaris_issu_monitor_exec_t,s0)
```
# March 2019, Shikhar Dogra
#
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#

### <summary>Polaris fman_cc Policy Rules.</summary>

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#

### <summary>Polaris smand Policy Rules.</summary>

####################################################################
### <summary>
### Allow domain to be started by smand 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_smand_domain',`
gen_require(`
type polaris_smand_t;
')
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_smang_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_smang_t;
`)
polaris_lipc_write($1, polaris_sman_bshell_serv_lipc_t, polaris_smang_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)
`)

########################################################################
## <summary>
## create /tmp/trans_tmp and /tmp/trans_tmp.1 to store lsof output  
## </summary>
## <param name="domain">
## Domain allowed to manage tmp files.  
## </param>
## <rolecap/>
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)
`)

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* /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)

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#

## <summary>
Polaris Flashlib Policy Rules.</summary>

******************************************************************************
# Flashlib policy (infra/flashlib)
******************************************************************************

******************************************************************************
# <summary>
## Read Polaris /tmp/.flashlock file
## <summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
#
# interface('polaris_flashlib_lock',`
#
gen_require(`
#
#
# 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
# <summary>
# <param name="domain">
# Domain allowed access.
# </summary>
# </param>
#
# interface('polaris_flashlib_log',`
#
gen_require(`
#
# manage_files_pattern($1, tmp_t, polaris_flashlib_log_t)
#')
#
# 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.
### </summary>
### </param>

```c
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)
')
```

```c
### <summary>
### Write partition disk device that contains rommon variables.
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>

```c
interface('polaris_flashlib_write',
    gen_require('
        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):
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#

## <summary>Polaris LUA Policy Rules.</summary>

########################################################################
## Lua policy
########################################################################

########################################################################
## <summary>
## Read Polaris lua files (/lua)
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##	</summary>
## </param>
#
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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#

## <summary>Polaris tamd_rp Policy Rules.</summary>

Found in path(s):
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## <summary>Polaris polarisiptbl Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiptbl.if

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#
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#
#
# autopolarsplatformpbase file contexts place holder

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#
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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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmiportsfetch.te
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#
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#

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_ngwc_fed_debug_mgr_t)
polaris_chasfs_read(polaris_ngwc_fed_debug_mgr_t)
polaris_tdlresolve_read(polaris_ngwc_fed_debug_mgr_t)

polaris_disk_bootflash_read_lnk(polaris_ngwc_fed_debug_mgr_t)
polaris_dmammap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_chdrvmmap_dev_use(polaris_ngwc_fed_debug_mgr_t)
polaris_dplr_iomem_mmapdrv_dev_use(polaris_ngwc_fed_debug_mgr_t)

# opens /proc/pid/net/dev
kernel_read_network_state(polaris_ngwc_fed_debug_mgr_t)

# calls tcpdump, let it run in its own domain
netutils_domtrans(polaris_ngwc_fed_debug_mgr_t)

# calls system function
corecmd_exec_shell(polaris_ngwc_fed_debug_mgr_t)

# calls lspci and other utilities
corecmd_exec_bin(polaris_ngwc_fed_debug_mgr_t)

auth_use_nsswitch(polaris_ngwc_fed_debug_mgr_t)

# lspci needs sysfs access
dev_list_sysfs(polaris_ngwc_fed_debug_mgr_t)
dev_read_sysfs(polaris_ngwc_fed_debug_mgr_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_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "idope_svr")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_sock_t, sock_file, "shfwd_svr")

gen_require(
    type tmp_t;
')
manage_sock_files_pattern(polaris_ngwc_fed_debug_mgr_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_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "pktgen.txt")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "DopeElam.sh")
files_tmp_filetrans(polaris_ngwc_fed_debug_mgr_t, polaris_fed_debug_tmp_t, file, "MemDumpElam.sh")

gen_require(
    type tmp_t;
')
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, { tmp_t polaris_fed_debug_tmp_t},
polaris_fed_debug_tmp_t)
# talk to fed over unix sockets
polaris_fed_sock_write(polaris_ngwc_fed_debug_mgr_t)

# /dcmlog.txt
type polaris_fed_debug_dcmlog_t;
files_type(polaris_fed_debug_dcmlog_t)
gen_require(
    type root_t;
)
filetrans_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t, file, "dcmlog.txt")
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, root_t, polaris_fed_debug_dcmlog_t)

# dope.py listens on port 12255
corenet_tcp_bind_generic_node(polaris_ngwc_fed_debug_mgr_t)
allow polaris_ngwc_fed_debug_mgr_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_ngwc_fed_debug_mgr_t)
corenet_tcp_connect_polaris_fed_debug_trace_rpc_port(polaris_ngwc_fed_debug_mgr_t)

# dope.py listens on port 5389 for shfwd commands
corenet_tcp_bind_polaris_fed_debug_shfwd_command_port(polaris_ngwc_fed_debug_mgr_t)

# LOOK AT ME: /dev/mem access restriction remove after fix for CSCvm07702 is committed.
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`starfleet_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_t)
')
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_ngwc_fed_debug_mgr_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_ngwc_fed_debug_mgr_t, polaris_fed_debug_asic_config_t, file, "asic_config.pickle")
gen_require(
    type tmp_t;
)
manage_files_pattern(polaris_ngwc_fed_debug_mgr_t, tmp_t, polaris_fed_debug_asic_config_t)

# dope.py invokes scapy.py for DP trace which needs to create socket to seek
# interface info via ioctl ifreq
allow polaris_ngwc_fed_debug_mgr_t self:udp_socket { create ioctl };

Open Source Used In Cat9K 17.7.1 9399
# /tmp/rdope ffi handle directory where libffi will create file with execute
# mapping. Files system should be executable and /tmp so far is. Note TMPDIR
# environment variable is the first choice where to create libffi executable
# mapped files.

type polaris_fed_debug ffi t;
files_tmp_file(polaris_fed_debug ffi t);
files_tmp_filetrans(polaris_ngwc fed_debug mgr t, polaris fed_debug ffi t, dir, "rdope ffi")
gen_require(
    type tmp t;
    )
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 to read /proc/mtd called from mcp_getmonvar
kernel_read_system_state(polaris ngwc fed_debug mgr t)

polaris_remap_mem_dev_use(polaris ngwc fed_debug mgr t)

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
dnl April 2018, Victor Kamensky
dnl
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dnl
dnl Process Names Map
define(`process_map', `defn(format(``process_map[%s]', `$1'))')
define(`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), process_map(process_short_name($1))))')
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'))')
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(HM_FP, hm)
process_map_set(HM_RP, hm)
process_map_set(IOMD_CC, iomd)
process_map_set(IOSD_CC, iosd)
process_map_set(IOSD_RP, iosd)
process_map_set(IOSD_BP, iosd)
process_map_set(IOXM_RP, ioxman)
process_map_set(ISSU_STK, issu_stack)
process_map_set(LM_RP, lm)
process_map_set(MAINT_RP, periodic)
process_map_set(PLOGD_CC, plogd)
process_map_set(PLOGD_FP, plogd)
process_map_set(PLOGD_RP, plogd)
process_map_set(REPM_RP, repm)
process_map_set(SERVICE_MGR_RP, service_mgr)
process_map_set(SERVICE_MGR_FP, service_mgr)
process_map_set(SM, smand)
process_map_set(SORT_RP, sort_files)
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
No license file was found, but licenses were detected in source scan.

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dnl April 2018, Victor Kamensky
dnl
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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
dnl April 2018, Victor Kamensky
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_vtyserverutil Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmivtyserverutil.d
No license file was found, but licenses were detected in source scan.

# # August 2017, Victor Kamensky
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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
No license file was found, but licenses were detected in source scan.

# # February 2020, Victor Kamensky
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#

### <summary>Polaris dmi_ports_fetch Policy Rules.</summary>
## <summary>
## Work with /bootflash/sdavc
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_sdavc_proxy_manage',`
    genRequire(`
        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
No license file was found, but licenses were detected in source scan.

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

# 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/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/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)

# /flash is symbolic link /flash10/USER
flash gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

#/flash1
# USER is a reserved selinux keyword - escape it like this
#flash10(/.*/)? gen_context(system_u:object_r:polaris_disk_crashinfo_t,s0)
#flash10/USE[R]/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
#flash10/USE[R]/nvram_config -- gen_context(system_u:object_r:polaris_nvram_file_t,s0)
#flash10/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_swipedrive_device_t,s0)
/dev/sdflash gen_context(system_u:object_r:polaris_iots_swipedrive_file_t,s0)
#usb device
/dev/sda1 -b gen_context(system_u:object_r:polaris_iots_swipedrive_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_pwm_fpga_device_t,s0)
/dev/petra-zynq-ps-gpio -c gen_context(system_u:object_r:polaris_iots_pwm_fpga_device_t,s0)
/dev/petra-gpio-pc3 -c gen_context(system_u:object_r:polaris_iots_pwm_fpga_device_t,s0)
#Line card fpga driver for mmap
/dev/petra-lc-fpga -c gen_context(system_u:object_r:polaris_iots_pwm_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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarisngwcfed, 1.0);

gen_require(`
    type polaris_ngwc_feed_t;
`)

polaris_btrace_data_manage(polaris_ngwc_feed_t)
polaris_chasfs_manage(polaris_ngwc_feed_t)
polaris_tdlresolve_read(polaris_ngwc_feed_t)
polaris_tdlldb_list_dirs(polaris_ngwc_feed_t)
polaris_lua_read(polaris_ngwc_feed_t)
polaris_flashlib_read(polaris_ngwc_feed_t)
polaris_chasync_files_manage(polaris_ngwc_feed_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_ngwc_feed_t)
polaris_ripc_sman_ui_serv_connect(polaris_ngwc_feed_t)
polaris_db_tdldb_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('polaris_dplr_dev_use(polaris_ngwc_fed_t)
')

# /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_mem_dev_use(polaris_ngwc_fed_t)
')

# /dev/cli2xcvr_pipe and /dev/xcvr2cli_pipe
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
corenet_udp_bind_polaris_ngwc_fed_shfwd_port(polaris_ngwc_fed_t)

# connect to shfwd port
corenet_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
corenet_udp_bind_polaris_ngwc_fed_dbgmn_port(polaris_ngwc_fed_t)
corenet_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,
# nglod_doppler_mmap() api is called to get hold of
# MMapped Asic address. As part of the operation it uses
# /dev/chdrvmmmap device.
polaris_chdrvmmmap_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)
manage_dirs_pattern(polaris_ngwc_fed_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_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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#
Open Source Used In Cat9K 17.7.1 9412

/usr/binos/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/polarismincsshdmgmt.fc
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#
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#
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#
/usr/binos/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
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#
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#
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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
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris Cfg Policy Rules.</summary>

################################################################################
# Cfg files policy
################################################################################
## <summary>
## Manage cfg files (under /tmp/sw/cfg)
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

### interface('polaris_cfg_data_manage',
  gen_require(
    type polaris_cfg_data_t;
    )
    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)
  )

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfg.if
No license file was found, but licenses were detected in source scan.

#
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#

policy_module(polarisngiolite, 1.0);

gen_require(
  type polaris_ngiolite_t;
  )

polaris_btrace_data_manage(polaris_ngiolite_t)
polaris_crft_data_manage(polaris_ngiolite_t)
polaris_chasfs_manage(polaris_ngiolite_t)
polaris_tdlresolve_read(polaris_ngiolite_t)
polaris_tdldb_list_dirs(polaris_ngiolite_t)
polaris_cpld_read(polaris_ngiolite_t)
polaris_flashlib_read(polaris_ngiolite_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 getattr 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)
kernl_search_network_sysctl(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 semaphor 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/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)
')

def(`sparrow_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

def(`blackheart_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

def(`cabo_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
')

def(`aventus_platform',`
polaris_cm_cc_tmpfs_manage(polaris_ngiolite_t)
polaris_tty_NMEA_dev_use(polaris_ngiolite_t)
')

def(`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)
kern
## CWAN NGIOLITE process policies start###
# cwan running as a ngiolite process needs to be able to RW/IOCTL to qcqmiX files
polaris_qcqmi_dev_use(polaris_ngiolite_t)
## CWAN NGIOLITE process policies end####
# 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 command "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/binos/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/binos/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/binos/bin/ngiolite to manage /tmp
type polaris_ngiolite_tmp_t;
files_tmp_file(polaris_ngiolite_tmp_t)
# allow /usr/binos/bin/ngiolite to manage /tmp/xxdisplay.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 access 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 "sysctl_i2c.lck"
    gen_require(
        type polaris_cm_rp_tmp_t;
    )
    files_tmp_filetrans(polaris_ngiolite_t, polaris_cm_rp_tmp_t, file, "sysctl_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('  
    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('  
    # Allow ngiolite to access ezManage dgram socket
    gen_require('  
        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('  
    polaris_ds31408_dev_use(polaris_ngiolite_t)
  ')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngiolite.te
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#  
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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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#
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#

### <summary>Polaris vdaemon Policy Rules.</summary>

```
### <summary>
### Write vdaemon /var/run socket file
### </summary>
### <param name="domain">
### Domain allowed access.
### </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
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#
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#
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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

gen_require(
    type setfiles_t;
)
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\n#########################################################################
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_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient1_nmspd_mqipc_t)

type polaris_testclient2_nmspd_mqipc_t;
polaris_mqipc_type(polaris_testclient2_nmspd_mqipc_t);

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#
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#

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")
polaris_udev_tmp_manage(setfiles_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_nfs_read(polaris_nmspd_t)
# enable listen on tcp port 16113
corenet_tcp_bind_polaris_nmspd_port(polaris_nmspd_t)

# 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 connections 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 persistence
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
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#
# 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_tldldb_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_dbgld_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
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 setpgid;

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
corenet_udp_bind_polaris_ftm_fnf_port(polaris_ftm_t)
corenet_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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#
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#
#
## <summary>Polaris fman_fp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmanfp.if
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#
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#

/tmp/replication(/.*)?    gen_context(system_u:object_r:polaris_repm_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrepm.fc

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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_rsrc
devices.
## </summary>

## <param name="domain">
## Domain allowed access.
## </param>

interface(`polaris_cpp_dev_use`,
 gen_require(`
   type device_t;
   type polaris_cpp_device_t;
`)
   write_chr_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">
##      <summary>
##      Type to be used as a cpp process.
## </summary>
## </param>
#
interface(`polaris_cpp_process`,`
    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">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <param name="object">
##      <summary>
##      File name in /tmp that domains creates and other cpp process
##      access.
## </summary>
## </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_t code
### which resides in /dev/shm/cpp_ucode_dram
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
#
interface('polaris_cpp_tmpfs_exec',`
gen_require(`
    type polaris_cpp_tmpfs_t;
`)

    allow $1 polaris_cpp_tmpfs_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">
### <summary>
### Domain allowed access.
### </summary>
### </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>
### </param>
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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_getattrProc_files($1)
kernelp_write_proc_files($1)
kerneler_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)
deviceRW_sysfs($1)
')

#######################################
## <summary>
## Manage /dev/shm files
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
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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#
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#
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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)
/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/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)

# /obfl is separate on qwlc
/obfl(/.*)? gen_context(system_u:object_r:polaris_obfl_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:vwlclinstall_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/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
/lib/c0 -l  gen_context(system_u:object_r:polaris_disk_p_t,s0)
/lib/c1 -l  gen_context(system_u:object_r:polaris_disk_s_t,s0)

#/harddisk labels (qwl)
/vol/harddisk(/.*)?  gen_context(system_u:object_r:polaris_disk_harddisk_t,s0)
/vol/harddisk/racelogs(/.*)?  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:systemd_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 qwl
/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 qwl
/dev/luna_mbfpga  -c gen_context(system_u:object_r:polaris_luna_mbfpga_device_t,s0)

#/dev/astro on qwl
/dev/astro  -c gen_context(system_u:object_r:polaris_astro_device_t,s0)

#/dev/cpp_il on qwl
/dev/cpp_il  -c gen_context(system_u:object_r:polaris_cpp_il_device_t,s0)

#/flash is symbolic link to /bootflash on qwl
/flash  gen_context(system_u:object_r:polaris_disk_bootflash_t,s0)

#/dev/oob_evfc on qwl
/dev/oob_evfc  -c gen_context(system_u:object_r:polaris_oob_evfc_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)
/config/ssh/ssh_host.*_key\*  gen_context(system_u:object_r:sshd_key_t,s0)
/config/ssh/ssh_host.*_key  gen_context(system_u:object_r:sshd_key_t,s0)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.fc
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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', 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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/vwlcmaps.m4
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#
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#
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#

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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#
# March 2017, Victor Kamensky
#
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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_crf_data_manage(polaris_cm_rp_t)
polaris_chasfs_manage(polaris_cm_rp_t)
polaris_tdlresolve_read(polaris_cm_rp_t)
polaris_tdlldb_list_dirs(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_tdlkb_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=sys_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"
# name="eeprom" dev="sysfs" ino=25556 scontext=sys_u:system_r:polaris_cm_rp_t:s0
# tcontext=sys_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 cmliib_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
# 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, file, "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(`cabot_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',`
  netutils_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 to 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
# CSCvm48950 is fixed using CSCvm48953
ifdef(`nyquist_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

# LOOK AT ME: /dev/mem access restriction remove after
# CSCvn64182 is fixed using CSCvn64184
ifdef(`quake_platform',`
polaris_dev_mem_use(polaris_cm_rp_t)
')

#########################################################################
# CLI: "show platform hardware slot R0 xaui statistics"
# this results in cman (/usr/binos/bin/cman) 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 };

#########################################################################
# CLI: show plat soft cpu share
# - invokes functions in binos/tools/bin/cgroup_reports.sh
# - also cman-cli-show_cpu_share_cb in binos/cman/rp/src/cman_cli.c
# allow open/read/search cgroup files like
# /sys/fs/cgroup/cpu,cpuacct/iosxe_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(
    # betelgeuse need access to /dev/sirius_fpga
    polaris_sirius_fpga_dev_use(polaris_cm_rp_t)
)

# on tsn read access to /sys/devices/platform/moka_fpga
optional_policy(
    polaris_mokafpga_read(polaris_cm_rp_t)
)

optional_policy(
    polaris_tam_getattrs_tmp_dirs(polaris_cm_rp_t)
)

# on vwlc/macallan, cmand creates /tmp/hw_entropy
polaris_hw_entropy_create(polaris_cm_rp_t)

# on tsn need write access to
# sys/devices/platform/cpld/reg_rp_sku_register
# on starfleet need write access to
# sys/devices/platform/cpld/reg_fan_fault_shutdown
optional_policy(
    polaris_cpld_write(polaris_cm_rp_t)
)

# LOOK AT ME: /dev/mem access restriction
ifdef(`tsn_platform',`
    polaris_dev_mem_use(polaris_cm_rp_t)
)

# reads from, populates chasfs with values and deletes /tmp/package_biv_sums
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_present")
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/bin/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_tlddbpersist_setup(polaris_cm_rp_t)
polaris_tmp_tlddb_persist_setup(polaris_cm_rp_t)

#code_sign_verify is started by cmdand
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/monefg/efg.dat
polaris_nvram_read(polaris_cm_rp_t)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscmrp.te
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dnl
 dnl April 2018, Victor Kamensky
dnl
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dnl
divert(1)

include(`polaris_process.m4')
dnl Stub out polaris 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',``)

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
#
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_tdlldb_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_lnk_file_perms;
dev_filetrans(polaris_plogd_t, devlog_t, sock_file, "log")
# make sure that unix_dgram_socket got transitioned into syslogd_t
type_transition polaris_plogd_t polaris_plogd_t:unix_dgram_socket syslogd_t;
allow polaris_plogd_t syslogd_t:unix_dgram_socket { bind create read };
# autogen script misses connection between plogd
polaris_rproc_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;

polaris_dynconf_tmp_read(polaris_plogd_t)

# plogd calls journalctl -f to get system logs including our AVC messages
# plogd also signals running journalctl to manage the buffer queues
gen_require('type journalctl_t;
    )
journalctl_domtrans(polaris_plogd_t)
allow polaris_plogd_t journalctl_t:process signal;

# should be moved into contrib journalctl.te? journalctl tries to read
# /proc/1/environ
gen_require('type journalctl_t;
    )
init_read_state(journalctl_t)
allow journalctl_t self:capability sys_resource;
allow journalctl_t self:process setrlimit;

# 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)

# /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('attribute syslog_client_type;
    )
init_search_pid_dirs(syslog_client_type)
#plog_d calls journalctl to get system log including AVC message.
allow polaris_plogd_t journalctl_t:process signal;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.te
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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
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#

## <summary>Polaris ftm Policy Rules.</summary>

#######################################
## <summary>
##      Write ttm /var/run socket file
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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
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#

---

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#
/usr/sbin/conf/iptables -- 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
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## <summary>Polaris cpp_sp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppsp.if
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# polarisngwctblmgr file contexts place holder

Found in path(s):
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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/bin/os/conf/dash_fpga_xaui.py --  gen_context(system_u:object_r:polaris_dash_fpga_xaui_exec_t,s0)

/usr/bin/os/bin/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/bin/os/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
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## <summary>Polaris rrm_mgr Policy Rules.</summary>

Found in path(s):
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## <summary>Polaris LIPC Policy Rules.</summary>
# LIPC policy

## <summary>
## Manage lipc files
## </summary>

### <param name="domain">
### Domain allowed access.
### </param>

```
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_lnk_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.
### </param>

```
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>
interface("polaris_lipc_write'`,
  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):
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dnl
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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
ifelse(lipc_type_map($1), `', `polaris_lipc_service_server_full($1, $2'))
lipc_type_map_set(lipc_label($1), process_label($2))
`)
define('polaris_lipc_service_client_aux',`dnl
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
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_tdlresolve_read(polaris_btman_t)
polaris_tdlldb_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_tdlldb_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_tmfiles_tm_filetrans(polaris_btrace_tmppub_t, dir, "tmppub")
filetrans_pattern(polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, { file dir })
manage_files_pattern(polaris_btrace_tmppub_t, polaris_btrace_tmppub_t, polaris_btrace_tmppub_t)
manage_dirs_pattern(polaris_btrace_tmppub_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_tmp_t, polaris_btman_tmp_t, file)
manage_files_pattern(polaris_btman_tmp_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/0/0/0/rp_security/mount/usr/binos/bin/btman -f rp
# - 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
corennet_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_manager(polaris_btman_t)

# allow polaris_btman_t access to polaris_cm_rp semaphore
polaris_cm_rp_sem_use(polaris_btman_t)

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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_crft_data_manage(polaris_fman_rp_t)
  polaris_chasfs_manage(polaris_fman_rp_t)
  polaris_tdlresolve_read(polaris_fman_rp_t)
  polaris_tdlldb_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)
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_issu_tmp_files_read(polaris_fman_rp_t)

polaris_install_tmp_read(polaris_fman_rp_t)

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policy_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_tldresolve_read(polaris_rif_mgr_t)
polaris_tldldb_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)
kerned_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;

corenet_tcp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_tcp_connect_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_udp_bind_polaris_rif_mgr_port(polaris_rif_mgr_t)
corenet_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.
## </summary>
## <param name="domain">
## </param>
## <rolecap/>
#
interface(`polaris_use_stack_mgr_fifo',
gener require(''
type polaris_stack_mgr_t;
')

---

Open Source Used In Cat9K 17.7.1 9464
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
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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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
No license file was found, but licenses were detected in source scan.

#
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#
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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;
  `)
  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>

```c
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>

```c
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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#
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## <summary>Polaris LUA Policy Rules.</summary>

```

# Polaris Lfts

## <summary>Work (read, write, ioctl) with /dev/dev_lfts device.

## </summary>

## <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
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#

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#
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#
#

## <summary>Polaris ofa Policy Rules.</summary>

Found in path(s):
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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/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_manage(polaris_odm_proxy_t)
polaris_crft_data_manage(polaris_odm_proxy_t)
polaris_chasfs_manage(polaris_odm_proxy_t)
polaris_tdlresolve_read(polaris_odm_proxy_t)
polaris_tdlldb_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_tdlldb_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>
########################################
## <summary>
##   Execute issumonitor in the polaris_issu_monitor domain.
## </summary>
## <param name="domain">
##   <summary>
##   Domain allowed to transition.
##   </summary>
## </param>
#

interface('polaris_issu_monitor_domtrans',
  gen_require('
    type polaris_issu_monitor_t, polaris_issu_monitor_exec_t;
  ')
nomatch_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 May 2018, Victor Kamensky
dnl
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dnl
dnl Place holder to let selinux-policy makefile know that this module
dnl is autigenenerated, 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/autopolarisplatformipcbase.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.te.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.fc.in
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplatformpcauto.if.in
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polariskeyman, 1.0);

gen_require(
   type polaris_keyman_t;
 )

polaris_btrace_data_manage(polaris_keyman_t)
polaris_crft_data_manage(polaris_keyman_t)
polaris_chasfs_manage(polaris_keyman_t)
polaris_tdlresolve_read(polaris_keyman_t)
polaris_tdlldb_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 ciscosslibcrypto.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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# # July 2017, Victor Kamensky
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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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# # July 2017, Victor Kamensky
# # Copyright (c) 2017-2021 by Cisco Systems, Inc.
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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_hmdp_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
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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
No license file was found, but licenses were detected in source scan.

#
# 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/m4/polarisperiodic.if
No license file was found, but licenses were detected in source scan.

#
# December 2019, Victor Kamensky
#
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policy_module(polariscommon, 1.0);

generate_policy(polariscommon)

policy_module(polariscommon, 1.0);

generate_policy(polariscommon)
# 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 att 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
gen_require('      type rsync_t;
      type init_t;
')
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

```c
gen_require(
    type auditd_t;
)
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 mean one have sys_admin
# capability. For now grant sys_admin capability to everyone :(. 

```c
gen_require(
    attribute domain;
)
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

```c
gen_require(
    attribute domain;
)
allow domain domain:process { noatsecure rlimitinh }; 
```

# nfs server exporting some directories like /harddisk

```c
gen_require(
    type nfsd_t;
)
)
polaris_disk_bootflash_read_lnk(nfsd_t)
polaris_harddisk_read(nfsd_t)
```

# nfs server check hugetlbfs files system

```c
gen_require(
    type hugetlbsfs_t;
)
)
list_dirs_pattern(nfsd_t, hugetlbsfs_t, hugetlbsfs_t)
```

# temporarily addressing denial,
# preferable to turn on nfs_export_all_rw/ro boolean

```c
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_confd_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 label to run as unconfined
    ifdef('polaris_unconfined',
      gen_require('    type auditd_t;
    
    gen_require('    type setfiles_t;
    
    mmap_files_pattern(setfiles_t, dmidecode_t, sysfs_t)
    gen_require('    type setfiles_t;
    type sysfs_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_confd_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 label 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 rpcd_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(rpcd_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/tns
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_inittc_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)
corenet_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 inittc_t through ssh-keygen
# creates /config/.ssh directory if does not exist; /config
# directory is typically symlink to /bootflash
gen_require(
    type inittc_t;
type ssh_home_t;
')
polaris_bootflash_filetrans(inittc_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 inittc_t;
type init_t;
')
files_tmp_filetrans({ init_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]
psimple_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)'
')

genshRequire('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 rmмонбিо 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
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 Rips 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')')

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

#  
# 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">
##     Domain allowed access.
## </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
No license file was found, but licenses were detected in source scan.

#  
# April 2017, Victor Kamensky
#  
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#  
## <summary>Polaris dmi_dmiauthd Policy Rules.</summary>
### <summary>
### Manage dmiauthd fifo files
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_dmiauthd_tmp_manage',
    gen_require(
        type polaris_dmiauthd_dmiauthd_tmp_t;
        type tmp_t;
    )
    manage_fifo_files_pattern($1, tmp_t, polaris_dmiauthd_dmiauthd_tmp_t)
)

### <summary>
### Write into fifo file created by dmiauthd, typical case when
dmiauthd starts script under popen.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
interface('polaris_dmiauthd_use_fifo',
    gen_require(
        type polaris_dmiauthd_dmiauthd_t;
    )
    write_fifo_files_pattern($1, polaris_dmiauthd_dmiauthd_t, polaris_dmiauthd_dmiauthd_t)
)

### <summary>
### Manage /tmp/netconf-yang-diag/ files
### </summary>
### <param name="domain">
### Domain allowed access.
### </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)
)

#######################################
## <summary>
## Read /tmp/netconf-yang-diag/ files
## </summary>
## <param name="domain">
## Domain allowed access.
## </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
No license file was found, but licenses were detected in source scan.

# # March 2019, Shikhar Dogra
#
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#
#
# polarisfmancc file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisfmancc.fc
No license file was found, but licenses were detected in source scan.

dnl
define(`lipc_stem', `translit(patsubst($1, `\'-lipc\'$', `'), `\'-', `_'))
define(`lipc_label', `format(`polaris_%s_lipc_t', lipc_stem($1)))

dnl Lipc Type Map: track that type declations unique
define(`lipc_type_map', `defn(format(``lipc_type_map[%s]'', `$1')))
define(`lipc_type_map_set', `define(format(``lipc_type_map[%s]'', `$1'), `$2'))

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

# # February 2020, Victor Kamensky
# # Copyright (c) 2020-2021 by Cisco Systems, Inc.
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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_tdlresolve_read(polaris_cfgmgr_t)
polaris_flashlib_read(polaris_cfgmgr_t)
polaris_ripc_sman_ui_serv_connect(polaris_cfgmgr_t)
polaris_db_ttlldb_dir_use(polaris_cfgmgr_t)
logging_send_syslog_msg(polaris_cfgmgr_t)

# vconfd_load_shared_schemas
polaris_confkd_shared_schema_read(polaris_cfgmgr_t)
polaris_cedge_reset_ns(polaris_cfgmgr_t)
polaris_cedge_etc_manage(polaris_cfgmgr_t)
# /etc/version is opened via "show sdwan version"
# polaris_conf_file_read(polaris_cfgmgr_t)

# /var/run/cfgmgr_socket and pid
type polarisCfgmgrVarRun;
files_pid_file(polarisCfgmgrVarRun_t)
manage_files_pattern(polarisCfgmgrT, polarisCfgmgrVarRun, polarisCfgmgrVarRun_t)
manage_sock_files_pattern(polarisCfgmgrT, polarisCfgmgrVarRun, polarisCfgmgrVarRun_t)
files_pid_file_trans(polarisCfgmgrT, polarisCfgmgrVarRun, { file sock_file })

# sets up symbloc link /var/run/nets/default to pid 1 nets
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/tdldb'
polaris_tdldb_list_dirs(polarisCfgmgr_t)

#vip_binos_cpuinfo() performs file operations on PROC_CPUSSTAT_FILE (/proc/stat)
polaris_disk_install_fs_getattr(polarisCfgmgr_t)
#vip_binos_meminfo() reads PROC_MEMINFO_PATH (/proc/meminfo)
kernell_read_system_state(polarisCfgmgr_t)

# configure ip address on system interface on vrf 1
sysnet_domtrans_ifconfig(polarisCfgmgr_t)

# create tunnel interface in cfgmgr_tun_alloc function
corenet_rw_tun_tap_dev(polaris_cfgmgr_t)
allow polaris_ccfgmgr_t self:tun_socket create;

# works if /proc accept_source_route file of system interface
kernel_rw_net_sysctls(polaris_ccfgmgr_t)

# work with /tmp/xml/geostats
polaris_cedge_xml_tmp_manage(polaris_ccfgmgr_t)

# work with /tmp/tmp/geostats
polaris_cedge_tmp_manage(polaris_ccfgmgr_t)
allow polaris_ccfgmgr_t self:process setpgid;

# map on /etc/passwd
auth_map_passwd(polaris_ccfgmgr_t)

# give read permissions for /tmp/GPS_supported file created by iosd
polaris_iosd2iox_tmp_read(polaris_ccfgmgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.te
No license file was found, but licenses were detected in source scan.

dnl
dnl May 2018, Manohar Hungund

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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(`fp', `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 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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#
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#
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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)
/usr/cpp/bin/qfp-ucode-sparrow -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-aventus -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-cabo -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-goldbeach -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-radium -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
Open Source Used In Cat9K 17.7.1

```
/usr/cpp/bin/qfp-ucode-fugazi -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-sumatra -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-nanook -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/usr/cpp/bin/qfp-ucode-csr-fb -- gen_context(system_u:object_r:polaris_qfp_exec_t,s0)
/var/run/rte_config -- gen_context(system_u:object_r:polaris_qfp_var_run_t,s0)
```

```
/dev/netmap -c gen_context(system_u:object_r:polaris_netmap_device_t,s0)
/dev/svc_eng_punt[0-9]* -c gen_context(system_u:object_r:polaris_sep_device_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\c\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 polarsiqfp.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,s0)
')
```

```
# For platforms which use Intel quickassist (qat) v1.7
/dev/usdm_drv -c gen_context(system_u:object_r:polaris_icp_device_t,s0)
/dev/qat_adf_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)
```

```
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisqfp.fc
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```

```
#
# June 2017, Victor Kamensky
#
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#
/usr/binos/conf/telnetd_service.sh -- gen_context(system_u:object_r:polaris_tservice_telnet_exec_t,s0)
/usr/binos/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/polaristarservice.fc
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#
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#

/usr/binos/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 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_ripc_map_set(`rp', `elastic', BPROC_ODM, 1)
max_elastic_ripc_map_set(`cc', `elastic', BPROC_ODM, 1)
max_elastic_rpc_map_set(‘fp’, ‘elastic’, BPROC_ODM, 1)

max_elastic_rpc_map_set(‘rp’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_rpc_map_set(‘cc’, ‘elastic’, BPROC_WNCD, 7)
max_elastic_rpc_map_set(‘fp’, ‘elastic’, BPROC_WNCD, 7)

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(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)
/bootflash/iox_alt_hdd_mount_dir/docker/*/overlay2(/.*)?
    gen_context(system_u:object_r:container_share_t,s0)

/mnt/sd3/docker(/.*)? gen_context(system_u:object_r:container_var_lib_t,s0)
ifdef(`nyquist_platform',
/mnt/sd3/iox_alt_hdd_mount_dir/docker(/.*)?
gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*config\env
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*containers/*./.*\log
gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*containers/*./.*
gen_context(system_u:object_r:container_var_lib_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/iox_alt_hdd_mount_dir/docker/*overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/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/*./.*
gen_context(system_u:object_r:container_var_lib_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(`nyquist_platform',
/mnt/sd3/docker/*config\env
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*containers/*./.*\log
gen_context(system_u:object_r:container_log_t,s0)
/mnt/sd3/docker/*containers/*./.*
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*init(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*overlay(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
/mnt/sd3/docker/*overlay2(/.*)?
gen_context(system_u:object_r:container_share_t,s0)
')

ifdef(`passport_platform',
/flash1/docker/*config\env
gen_context(system_u:object_r:container_share_t,s0)
/flash1/docker/*containers/*./.*\log
gen_context(system_u:object_r:container_log_t,s0)
/flash1/docker/*containers/*./.*
gen_context(system_u:object_r:container_share_t,s0)
policy_module(polaris_sortfiles, 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_monbifo_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 };

#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_lnk(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_symlinks(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('}
# 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('}
    type 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;
)
#endif
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);

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_tldresolve_read(polaris_ioxman_t)
polaris_tlddb_list_dirs(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_tlddb_dir_use(polaris_ioxman_t)

#allow access to /bootflash/iox/ files
polaris_iox_dir_search(polaris_ioxman_t)
corenet_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/netns/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_tlldbpersist_setup(polaris_ioxman_t)
polaris_tmp_tlldb_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;
)
type attribute container_runtime_t polaris_domain;
type attribute container_runtime_t polaris_extended_domain;
)
# /usr/bin/os/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_mounton_sysfs_fs(polaris_iox_shell_t)
devUnmount_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 getopt setopt shutdown };

# ssh creates /root/.ssh directory
userrdument_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, dir, ".shell_exec")
files_tmp_filetrans(polaris_iox_shell_t, polaris_iox2iosd_tmp_t, file)
#allow shell_exec to manage /tmp/ncsshdAuthorized_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_users 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_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)
kernle_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_iost2ios_dtmp_manager(polaris_iost_t)

gen_require('  
type screen_var_run_t;
  type screen_exec_t;
')

# allow ioxman to set up ttys for screen
polaris_caf_tty_lnk_manager(polaris_iost_t)

# allow ioxman to set up ttys for screen
screen_exec(polaris_iost_t)

# add entrypoint to screen_exec/can_exec permissions
allow polaris_iost_t screen_exec_t:file entrypoint;

# make sure /tmp/screens is labeled correctly
files_tmp_filetrans(polaris_iost_t, screen_var_run_t, dir, "screens")

# allow ioxman to manage /tmp/screens/<appname>_con/aux.sid
manage_files_pattern(polaris_iost_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to manage sock_files and unix_stream_socket on screen
allow polaris_iost_self:unix_stream_socket { create_socket_perms connectto }; 
manage_dirs_pattern(polaris_iost_t, screen_var_run_t, screen_var_run_t)
manage_sock_files_pattern(polaris_iost_t, screen_var_run_t, screen_var_run_t)

# allow ioxman to transition into bexecute domain
polaris_bexecute_domtrans(polaris_iost_t)
polaris_bexecute_domain(polaris_iost_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_ncsshd_keys_manage(polaris_iost_shell_t)
polaris_iost2ios_dtmp_manager(polaris_iost_shell_t)

# allow shell_exec to manage guestshell files
gen_require('  
type container_file_t;
')
manage_files_pattern(polaris_iost_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)

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisioxman.te
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policy_module(polarismqipc, 1.0);

attribute polaris_mqipc;

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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 initrc_t

gen_require(`
  type dhcpc_t;
  type initrc_t;
  type dhcp_state_t;
')

files_var_lib_filetrans({ dhcpc_t initrc_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 initrc_t;
  type polaris_disk_varied_t;
  type unconfined_service_t;
')

files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "ami")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "azure")
files_tmp_filetrans({ unconfined_service_t initrc_t }, polaris_disk_varied_t, dir, "gcp")

# park policy for small polaris process umbrella_init.sh here

gen_require(`
// Open Source Used In Cat9K 17.7.1 9511

  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
  # Skip for vpcgw platform
  ifndef(`vpcgw_platform',`
    type polaris_gnmib_t;
  ')

  type polaris_objsstore_sem_t;
  files_tmpfs_file(polaris_objsstore_sem_t)

  # semaphore created by systemd-tmpfiles needs map permission
  gen_require(`
    type systemd_tmpfiles_t;
  ')
  mmap_files_pattern(systemd_tmpfiles_t, polaris_objsstore_sem_t, polaris_objsstore_sem_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_manager(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 partition label
gen_require(' type initrc_t;
    type ssh_home_t; ')
polaris_disk_config_filetrans(initrc_t, ssh_home_t, dir, ".ssh")

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policy_module(polarisissumonitor, 1.0);
install_issu_monitor

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_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)
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)

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_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)

polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)

polaris_db_tdlldb_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)

# allow objstore access
polaris_disk_objstore_read(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)

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#
	policy_module(polariscppsp, 1.0);

gen_require(`
  type polaris_cpp_sp_t;

Open Source Used In Cat9K 17.7.1 9515
polaris_btrace_data_manage(polaris_cpp_sp_t)
polaris_crft_data_manage(polaris_cpp_sp_t)
polaris_chasfs_manage(polaris_cpp_sp_t)
polaris_tdlresolve_read(polaris_cpp_sp_t)
polaris_tdlldb_list_dirs(polaris_cpp_sp_t)
polaris_cpld_read(polaris_cpp_sp_t)
polaris_flashlib_read(polaris_cpp_sp_t)
polaris_ripc_sman_ui_serv_connect(polaris_cpp_sp_t)
polaris_db_tdlldb_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
No license file was found, but licenses were detected in source scan.

#
# 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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#
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#

policy_module(polarissifmgr, 1.0);

generate_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_tldresolve_read(polaris_sif_t mgr_t)
polaris_tlddb_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 variable 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_manag(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_manag(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_manag(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_rw_generic_chr_files(polaris_sif_mgr_t)
# /dev/msi/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_sdm_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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#
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#
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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)

# 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/icp_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)
')

# Handling denial for rsync_t for socket -
# comm="rsync" path="socket:[16784]" dev="sockfs" ino=16784
# scontext=system_u:system_r:rsync_t:s0 tcontext=system_u:system_r:init_t:s0
ifdef(`fugazi_platform',`
  type rsync_t;
')
init_rw_stream_socket(rsync_t)

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/binos/conf/shell_exec.sh -- gen_context(system_u:object_r:polaris_iox_shell_exec_t:s0)
/usr/binos/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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#
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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_tdldb_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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#
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#
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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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#
# March 2017, Victor Kamensky
#
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policy_module(polarisngwcplfmgr, 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_tdlldb_list_dirs(polaris_ngwc_plfm_mgr_t)
polaris_cpld_read(polaris_ngwc_plfm_mgr_t)
polaris_lua_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_mngr_t self:capability [ chown fowner fsetid ];

type polaris_ngwc_plfm_mngr_tmp_t;
files_tmp_file(polarisNgwc_plfm_mngr_tmp_t)
files_tmp_filetrans(polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t, file, "pm_post_result")
files_tmp_filetrans(polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t, dir, "microcode_update")
manage_files_pattern(polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t)
manage_dirs_pattern(polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t, polarisNgwc_plfm_mngr_tmp_t)

# LOOK AT ME: raw memory write access
polaris_dev_mem_use(polarisNgwc_plfm_mngr_t)

# create /tmp/hw_entropy file anf fill with info from act2
polaris_hw_entropy_create(polarisNgwc_plfm_mngr_t)

polaris_boot_tmp_read(polarisNgwc_plfm_mngr_t)

polaris_flashlib_write(polarisNgwc_plfm_mngr_t)

# check existence of /tmp/tam_cfg_done
polaris_tam_getattrs_tmp_dirs(polarisNgwc_plfm_mngr_t)

# LOOK AT ME: Allow access to bootflash /flash/tam_client_app.log. file access
# remove after CSCVh66533 fixed
polaris_bootflash_manage(polarisNgwc_plfm_mngr_t)

# scans /sys/devices/pci0000:00/0000:00:00.0
dev_read_sysfs(polarisNgwc_plfm_mngr_t)

# rsync nvram_config file accross stack
#rsync_exec(polarisNgwc_plfm_mngr_t)
gen_require(''
    type rsync_t;
')
rsync_entry_domtrans(polarisNgwc_plfm_mngr_t, rsync_t)
allow rsync_t polarisNgwc_plfm_mngr_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(polarisNgwc_plfm_mngr_t)

# /dev/shm/sdm access
optional_policy(''
polaris_sdm_shm_manage(polarisNgwc_plfm_mngr_t)
')
# platform manager moves 00001.nvram_config file to /bootflash/nvram_config
polaris_nvram_manage(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_tdldbpersist_setup(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)
July 2018, Victor Kamensky

March 2017, Victor Kamensky

policy_module(polariscpld, 1.0);

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

# Open Source Used In Cat9K 17.7.1 9528

Open Source Used In Cat9K 17.7.1 9528

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisiomd.fc
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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.
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_tdlmdb_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_tdlmdb_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_tdlmdbpersist_setup(polaris_rogued_t)
polaris_tmp_tdlmdb_persist_setup(polaris_rogued_t)
Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrogued.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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_manager(polaris_cmm_t)
polaris_tdlresolve_read(polaris_cmm_t)
polaris_tdlldb_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
No license file was found, but licenses were detected in source scan.

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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_fm4
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
# polarisofa file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisofa.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
## <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.

#
# June 2017, Victor Kamensky
#
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#

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)
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/boardsubtype
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)
kernal_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
corenet_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_usersns { 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_files_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_lnk_files_pattern(polaris_caf_t, polaris_caf_files_t, polaris_caf_files_t)

# add new type for /opt/cisco/caf files and allow CAF to manage them

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")
corenet_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/repo/guestshell/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_pid_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_pid_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_loop_control(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
coreneth_tcp_connect_polaris_caf_api_port(polaris_caf_t)

virtmanage_sandbox_files(polaris_caf_t)

kernell_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
coreneth_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 }, 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 }, 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
gen_require(
    type polaris_code_verify_t;
')
polaris_iox_files_manage(polaris_code_verify_t)
# allow caf to control /tmp/trace/resource.log
polaris_iox_manage_tmp_files(polaris_caf_t)

# some utility running under caf needs access to /varied/ovf-env.xml
polaris_disk_varied_read(polaris_caf_t)

# caf reads the udev information
gen_require('  
    type udev_var_run_t;
')
manage_files_pattern(polaris_caf_t, udev_var_run_t, udev_var_run_t)

gen_require('  
    type virtd_lxc_t;
')
allow polaris_caf_t virtd_lxc_t:process signull;

polaris_removable_manage(polaris_caf_t)
polaris_lm_tmp_read(polaris_caf_t)

# caf modifies /etc/cgroup_params.txt
files_manage_etc_files(polaris_caf_t)

# read /tmp/iox_override.conf created by ioxman
polaris_iox_read_tmp_files(polaris_caf_t)

# python udev library used by caf
allow polaris_caf_t self:netlink_kobject_uevent_socket { bind create getattrib setopt }

# need access to rawip socket by pd_iox.sh
allow polaris_caf_t self:capability { net_raw setgid }
allow polaris_caf_t self:rawip_socket { create getattrib setopt }

# LOOK AT ME caf leaks fifo file descriptors need permissions for domains that started by it
gen_require('  
    type iptables_t;
')
allow iptables_t polaris_caf_t:fifo_file { read write append getattrib }

# allow iptables_t users permissions for IP accessed by the script guestshell_setup.sh
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;
')
sync_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_userrmodehelper_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\_signull(polaris\_caf\_t)

gen\_require(\'
    type ifconfig\_t;
')

# allow ifconfit\_t users\_perms 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

ifdef(\'passport\_platform\',
    gen\_require(\'
        type polaris\_iosd\_portal\_app\_lipc\_t;
')
    setattr\_sock\_files\_pattern(polaris\_caf\_t, polaris\_iosd\_portal\_app\_lipc\_t, polaris\_iosd\_portal\_app\_lipc\_t)
endif(\'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_filetrans(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/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/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)
kernell_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)

# Allow access starting/stopping iox
polaris_chasfs_read(iptables_t)
polaris_chasfs_read(ifconfig_t)
polaris_hman_use_fifo(polaris_caf_t)
iptables_domtrans(polaris_caf_t)

# Allow application signature verification
polaris_code_verify_domtrans(polaris_caf_t)

#access /proc/rmonbifo file cat9k-ioxhelper.sh
polaris_proc_rmonbifo_read(polaris_caf_t)
open_source_used_in_cat9k_17.7.1 9545

```c
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
gen_require(
    type container_file_t;
    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
gen_require(
    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
gen_require(
    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_tmp_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_tmp_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 };
corenet_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_tdldb_t;
    type polaris_tdldb_t;
')
manage_files_pattern(polaris_caf_t, polaris_tdldb_t, polaris_vs_oper_db_tdldb_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">
## </param>
## 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 utilities do that by
## some reason. Look at handle_confd_pid_available.
## Read files and symlinks under /dev/shm/confd.
## </summary>
## <param name="domain">
## <summary>
## 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">
## <summary>
## Domain allowed access.
## </summary>
## </param>
#

interface(`polaris_confd_ndbutil_create',`
  gen_require(`
    type polaris_confd_ndbutil_lock_t;
')

  files_lock_filetrans($1, polaris_confd_ndbutil_lock_t, dir, "ndbutil")
files_create_lock_dirs($1)
manage_dirs_pattern($1, polaris_confld_ndbutil_lock_t, polaris_confld_ndbutil_lock_t)
manage_files_pattern($1, polaris_confld_ndbutil_lock_t, polaris_confld_ndbutil_lock_t)
create_dirs_pattern($1, polaris_confld_ndbutil_lock_t, polaris_confld_ndbutil_lock_t)

### <summary>
### Creates types for and rules for ndbutils files under /var/lock/ndbutil
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <param name="stem">
### Stem for the domain. Name is constructed as polaris_stem_ndbutil_t
### </param>
### <param name="name" optional="true">
### The name of the object being created.
### </param>
#

```
template(`polaris_ndbutil_lock_template',`
    gen_require(`
        type polaris_confld_ndbutil_lock_t;
    `)
    type polaris_$2_ndbutil_t;
    files_type(polaris_$2_ndbutil_t)
    filetrans_pattern($1, polaris_confld_ndbutil_lock_t, polaris_$2_ndbutil_t, file, $3)
    manage_files_pattern($1, polaris_confld_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>
### <param name="domain">
### Domain allowed to transition.
### </param>
```
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_confd_var_t, polaris_confd_var_t)
)

#######################################
## <summary>
##      Manage confd log file (i.e /var/confd0/log/cia-confd.log). Used
## by pman to rotate logs into /bootflash/tracelogs.

```plaintext
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_confd_log_manage',
    gen_require(
        type polaris_confd_var_t;
    )
    manage_files_pattern($1, polaris_confd_var_t, polaris_confd_var_t)
')

## <summary>
## Execute dmi_ports_fetch in the caller domain.
## </summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </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">
## <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_conf_var_log_t, dir, "confd")
manage_dirs_pattern($1, var_log_t, polaris_conf_var_log_t)
manage_files_pattern($1, polaris_conf_var_log_t, polaris_conf_var_log_t)
}

#######################################
## <summary>
##      Read confd /var/log files (i.e /var/log/confd)
##      /bootflash/tracelogs/cia-netconf-trace* also has polaris_conf_var_log_t
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_conf_var_log_read',
    gen_require(
        type polaris_conf_var_log_t;
    )
    list_dirs_pattern($1, polaris_conf_var_log_t, polaris_conf_var_log_t)
    read_files_pattern($1, polaris_conf_var_log_t, polaris_conf_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_conf_tmp_use_fifo',
    gen_require(
        type polaris_conf_tmp_t;
    )
    read_fifo_files_pattern($1, polaris_conf_tmp_t, polaris_conf_tmp_t)
    write_fifo_files_pattern($1, polaris_conf_tmp_t, polaris_conf_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>
Domain allowed access.
</summary>

<param name="domain">
Domain allowed access.
</param>

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)
`)

Provide access for file operations under /etc/ dir.

<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">
Domain allowed access.
</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">
## <summary>
## Domain allowed to transition.
## </summary>
## </param>
#
# interface(`polaris_admin_tech_domtrans',

gen_require('type 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('type 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('type 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_tech_data_t:file watch;
#')

*******************************************************************************
## <summary>
##Allow domain to be started by confd with

transition into specific service domain.

<summary>
Type to be used to run utility.
</summary>

<param name="domain">
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)
')

Manage confd_cli files under /tmp/confd_cli.
<summary>
Domain allowed access.
</summary>

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)
')

Manage vconfd files under /tmp/vconfd.
<summary>
Domain allowed access.
</summary>

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>
## <param name="domain">
## Domain allowed access.
## </param>
#
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 only
## getattr, append and ioctl permissions. If it would be real standard I/O
## it would need read and write as well.
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface('polaris_confd_unix_stream_stdio_use',
    gen_require('type polaris_confd_t;
')
    allow $1 polaris_confd_t:unix_stream_socket { append getattr ioctl };
')

##########################################
## Creates types and rules for a script that is started
## by confd process.
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)
')

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dnl

dnl April 2018, Victor Kamensky

dnl
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dnl
dnl divert(-1)

dnl
include('polaris_process.m4')

include('polaris_database_db.m4')
include('polaris_database_db_fc.m4')
include('polaris_max_scope.m4')

dnl
#
# This is a generated file! Instead of modifying this file,
# modify proper platform TDL file.
#

No license file was found, but licenses were detected in source scan.
policy_module(polarisinstallmgr, 1.0);

gen_require(' 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_tdldb_dir_use(polaris_install_mgr_t)

# read all files in persisten 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)
ggetattr_files_pattern(polaris_code_verify_t, polaris_disk_bootflash_t, polaris_nvram_file_t)

# open, read, map and getattr 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:lnk_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
corenet_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
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#
# 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
coreneth_tcp_bind_http_port(polaris_confd_t)

# commplex_main (port 5000) is used by apache
coreneth_udp_bind_commplex_main_port(polaris_confd_t)

coreneth_tcp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:tcp_socket { getattr getopt setopt bind create listen accept connect read write };

coreneth_udp_bind_generic_node(polaris_confd_t)
allow polaris_confd_t self:udp_socket { bind connect create getattr getopt setopt };
coreneth_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"
lbs_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/netns/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 /CONFDFXS_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)
')

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_tmp_t)

# dmi_ports_fetch that runs under confd_t reads global.service.conf
polaris_tdlresolve_read(polaris_confd_t)
cnf_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/sdwan/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/.sdwaninstaller directories. In controller mode cedge code loopback
# mounts /bootflash/.sdwaninstallerfs file onto /bootflash/.sdwaninstaller 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/.sdwaninstallerfs 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_confd_t)
  )

# PLEASE LOOK AT ME confd tcp ports are supposed to be handle
# through TDL pseudo services, that one it not
corenet_tcp_connect_polaris_confd_maapi_port(polaris_confd_t)

# confd starts cmdptywrapper utility through erl_child_setup
# that allocates free pty device using operations on /dev/ptms
allow polaris_confd_t self:capability { fsetid setgid }
term_getattr_pty_fs(polaris_confd_t)
term_setattr_generic_ptys(polaris_confd_t)
term_use_generic_ptys(polaris_confd_t)
term_use_ptmx(polaris_confd_t)

# uses nice utility to start misc scripts
allow polaris_confd_t self:process setsched;

# allow netconf_callhome to execute ncsshd under ncsshd domain
polaris_ncsshd_mgmt_domtrans(polaris_confd_t)

# allow DmiAuth spawned by confd to access /tmp/.DmiAuth.socket
polaris_dmi_dmiauthd_dgram_send(polaris_confd_t)

# the default port for NETCONF Call Home (SSH) is 4334,
# and it is configurable by users
corenet_tcp_connect_all_ports(polaris_confd_t)
# by default the port is selected by system, and it is configurable by users
corenet_tcp_bind_generic_port(polaris_confd_t)
# netconf_callhome may create vrf-based netns on demand
polaris_vrf_netns_manage(polaris_confd_t)

# cmdwrapper utility that started by confd calls xstat
allow polaris_confd_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_confd_t)

# label for /tmp/confd_cli temporary files created by execute_confd_cli.sh
type polaris_conf_cl_i_tmp_t;
files_tmp_file(polaris_conf_cl_i_tmp_t)

# execute_confd_cli creates /tmp/sh-thd moved to /tmp/confd_cli
files_tmp_filetrans({ polaris_conf_cl_t polaris_conf_cl_i_t, polaris_conf_cl_i_tmp_t, dir, "confd_cli"})

# execute_confd_cli.sh script policy
polaris_utility_domain_template(confd_cli)
polaris_bexecute_domain(polaris_conf_cl_i_t, polaris_conf_cl_i_exec_t)
polaris_chasfs_read(polaris_confd_cli_t)
corecmd_exec_shell(polaris_confd_t)
icorecmd_exec_bin(polaris_confd_cli_t)
auth_use_nsswitch(polaris_confd_cli_t)
# bash get_tmpdir statfs /tmp directory
fs_getattr_tmpfs(polaris_confd_cli_t)

polaris_confd_cli_tmp_manage(polaris_confd_cli_t)
polaris_vconfd_tmp_manage(polaris_confd_cli_t)
telnet_use_ptys(polaris_confd_cli_t)

polaris_ripc_confd_ipc_connect(polaris_confd_cli_t)

# execute_confd_cli.sh -a -g PRIV00 runs grep over /bootflash/sdwan/.init_stage
polaris_bootflash_read(polaris_confd_cli_t)

# execute_confd_cli.sh writes to "pipe:[24719894]"
polaris_dmi_ncsshd_fwd_use_fifo(polaris_confd_cli_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"
allow polaris_confd_cli_t polaris_dmi_ncsshd_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)
kernl_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_nfs_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_confds_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_tech_t, polaris_admin_tech_tmp_t, file)
manage_files_pattern(polaris_admin_tech_t, polaris_admin_tech_tmp_t, polaris_admin_tech_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_tech_tmp_t:file open;

# maapi needs this.
allow polaris_admin_tech_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_tech_t self:capability dac_override;

# awk /^Shared/ {v += $2} END { print v} /proc/6384/smaps
allow polaris_admin_tech_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_tech_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_tech_t)

# vconfd_script_polaris_admin_tech_child.sh
# mv /bootflash/admintech /var/tech/ios
allow polaris_admin_tech_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_tech_t
term_getattr_unallocated_ttys(polaris_admin_tech_t)

# permit to access polaris_proc_rmonbifo_t by
#/usr/bin/vconfd_script_admin_tech.sh
polaris_proc_rmonbifo_read(polaris_admin_tech_t)

# permit to access/unlink /bootflash by polaris_admin_tech_t
polaris_bootflash_manage(polaris_admin_tech_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_tech_t)

# work with "/tmp/fp/pvp/work/inot_fifo"
polaris_pvp_stdin_read(polaris_admin_tech_t)

# work with "/tmp/fp/trace/fifo/pvp_sh%f_p_0_0_22607_fifo"
polaris_use_btrace_fifo(polaris_admin_tech_t)

# access to tunnel interface from snapshot_cdb()
corenet_rw_tun_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_reset_ns(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_tech_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  
polariscraf*  @csg/polaris-selinux-dev @csg/iox-selinux  
polarisgsdrp*  @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  
#  
# Copyright (c) 2016-2019 by Cisco Systems, Inc.  
# 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">  
### <summary>  
### Domain allowed access.  
### </summary>  
### </param>  
#  
# interface(`polaris_lm_tmp_read`,  
#    gen_require(  
#      type polaris_lm_tmp_t;  
#    )

read_files_pattern($1, polaris_lm_tmp_t, polaris_lm_tmp_t)
')

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarislm.if
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
#
## <summary>Polaris nmspd Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismnspd.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_database_aux`,
nl
########################################
## <summary>
##	Use $2 database.
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed access.
##
## </summary>
##
## <infoflow type="none"/>
#
interface(`polaris_db_tdldb_$1_use`,
  gen_require(
    type $2;
  )
  polaris_tdldb_use(dollarsone, $2, $3)
)'

define(`polaris_database',

Open Source Used In Cat9K 17.7.1 9577
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_tdlldb_list_dirs(polaris_hm_t)
polaris_cpld_read(polaris_hm_t)
polaris_lua_read(polaris_hm_t)
polaris_flashlib_read(polaris_hm_t)
polaris_ripc_sman_ui_serv_connect(polaris_hm_t)
polaris_db_tdlldb_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
# 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/monbifo/env_var.sh
polaris_monbifo_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_filegetattr;
')

# 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 calcsa.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 calcsa.sh in prev context type
polaris_install_tmp_read(polaris_hm_t)
gen_require(''
    type polaris_installtmp_t;
')
allow polaris_hm_t polaris_installtmp_t:fileunlink;

# 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_confdomtrans(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_bexecutedomtrans(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
#/tmp/show_patch_provision_temp -p /tmp/sw/isos
#/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_tmp
    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/iox_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:link_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_tmppub_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)
kernal_rw_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 };

---

Open Source Used In Cat9K 17.7.1 9585
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/os/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
ifdef('crankshaft_family',
    gen_require('type device_t;
type root_t;
type udev_t;
')
    #/dev/harddisk1 /dev/harddisk1 -> /dev/dm-0
filetrans_pattern({udev_t polaris_cli_fs_cmds_t}, device_t, fixed_disk_device_t, lnk_file, "harddisk1")
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_confd_var_log_t
polaris_confd_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)
fsUnmountNfs(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
################################################################################

polaris_utility_domain_template(monitor_dmi_process)
polaris_bexecute_domain(polaris_monitor_dmi_process_t, polaris_monitor_dmi_process_exec_t)

# 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)

# HMMAN calls for checking database compactability
# tdllib_db_epoch_test is requires access to /tmp/issu/provision/sw-running.txt
polaris_install_tmp_read(polaris_hm_t)

optional_policy(`
   polaris_efi_files_list_dirs(polaris_cli_fs_cmds_t)
# Execute hdparam in its own domain
fstools_domtrans(polaris_hm_t)

# Allow polaris_hm to get attributes of fixed disk
storage_getattr_fixed_disk_dev(polaris_hm_t)

# Allow read to ssd auth tmp files /tmp/ssd_blk_device
polaris_read_ssd_tmp_files(polaris_hm_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarishm.te
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#
# March 2017, Victor Kamensky
#
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#

### <summary>Polaris ngwe_tbl_mgr Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwctblmngr.if
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#

### <summary>Polaris polarisbtman Policy Rules.</summary>

###################################################
###<summary>
###Execute fs tools in the btrace_rotate domain.
###</summary>
###<param name="domain">
###<summary>
###Domain allowed to transition.
###</summary>
###</param>
#
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>

```c
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
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```

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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.
## </param>

```c
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
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#
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#
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#
/tmp/fp/tldlb(/.*)?                      gen_context(system_u:object_r:polaris_tldlb_t,s0)
/tmp/rp/tldlb(/.*)?                      gen_context(system_u:object_r:polaris_tldlb_t,s0)
/tmp/cc/tldlb(/.*)?                      gen_context(system_u:object_r:polaris_tldlb_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.fc
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#
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#
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#
## <summary>Polaris NVRAM Policy Rules.</summary>

########################################################################
# Polaris lsmpi
########################################################################

########################################################################
## <summary>
## Work (read, write, ioctl) with /dev/lsmpi device.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface('polaris_lsmpi_dev_use',``
gen_require("
type device_t;

```c

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;

```

######################################
## <summary>
##      Read lsmpi sysctl file, ie one under /proc/sys/lsmpi and
## /proc/sys/lsmpi_lodrv directories.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface('polaris_lsmpi_sysctl_read',
      `polaris_sysctl_lsmpi_t;
read_files_pattern($1, polaris_sysctl_lsmpi_t, polaris_sysctl_lsmpi_t)

```

######################################
## <summary>
##      Read from /sys/devices/virtual/contdev sysfs files.
## sys files.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface('polaris_contdev_dev_read',
gen_require(`
type polaris_sysfs_contdev_t;
      type sysfs_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('t
# 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('t
# 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;
#
#                        
# Open Source Used In Cat9K 17.7.1  9595
#
## <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>

```c
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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# 

```
/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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# 

# polarismnspd file contexts place holder

Found in path(s):
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_domintra(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_domintra(polaris_xcopy_script_t)
corenetscp_connect_ssh_port(polaris_curl_t)
corenetscp_connect_http_port(polaris_curl_t)
corenetscp_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_nfsfs_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)
kernellistproc(polaris_xcopy_script_t)

# read /proc/cmdline
kernell_read_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_filertrans(polaris_xcopy_script_t, polaris_xcopy_tmp_t, {dir file})
polaris_xcopy_tmp_manager(polaris_xcopy_script_t)

# Curl writes the progress...
polaris_xcopy_tmp_manager(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
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
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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.
##
## <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">
## Domain allowed access.
## </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)
')

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

dnl
April 2018, Victor Kamensky

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define('polaris_database_aux',
    dnl /tmp/rp/tlddb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
    /tmp/fp/tlddb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
    /tmp/cc/tlddb/[0-9]/$2 -- gen_context(system_u:object_r:$1,s0)
    /tmp/rp/tlddb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
    /tmp/fp/tlddb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
    /tmp/cc/tlddb/[0-9]/$2\lock -- gen_context(system_u:object_r:$1,s0)
    )

define('polaris_database',
    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.

#
# June 2017, Victor Kamensky
#
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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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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 pvsm_*.sh scripts  
files_tmp_filetrans($1, polaris_iox_tmp_t, file, "resource.log")
)

########################################
## <summary>
##      Read ioxman temporary files and directories in /tmp.
## Like /tmp/ios_xml.dat and /tmp/iox_override.conf
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
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)
')

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)
')

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">
### Domain allowed access.
### </param>

```c
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">
### Domain allowed access.
### </param>

```c
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">
### Domain allowed to transition.
### </param>

```c
interface('polaris_ssd_auth_domtrans',
```

---

Open Source Used In Cat9K 17.7.1 9603
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">
##      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
No license file was found, but licenses were detected in source scan.

# # Nov 2020, Swati Kumaro
# # Copyright (c) 2020 by Cisco Systems, Inc.
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#
/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
No license file was found, but licenses were detected in source scan.

# January 2021, Gabriel Lee, Shawn Liu
#
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#

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

# 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>
## <//summary>
## <//param>
#
interface(`polaris_tdldbpersist_setup',`
gen_require('  type polaris_disk_bootflash_t;
      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
No license file was found, but licenses were detected in source scan.

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

#
# 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/ttmd to acces polaris_tdlresolve_t and
policy_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 anmespace 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)
corenets_tcp_connectGeneric_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/bin/os/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
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',"")

include(`polaris_ipc_ripc.m4')
include(`polaris_ipc_base_ripc_te.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.
#
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
No license file was found, but licenses were detected in source scan.

#
# 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_link_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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdroputil.te
No license file was found, but licenses were detected in source scan.
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

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

# /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:ssh_key_t,s0)
/bootflash/ssh/ssh_host.*_key gen_context(system_u:object_r:ssh_key_t,s0)
/boostflash/tracelogs(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/boostflash/tan(/.*)? gen_context(system_u:object_r:polaris_btrace_data_t,s0)
/boostflash/core(/.*)? gen_context(system_u:object_r:polaris_core_file_t,s0)
/boostflash/debug.conf gen_context(system_u:object_r:polaris_debug_conf_t,s0)
/boostflash/packages.conf gen_context(system_u:object_r:polaris_packages_conf_t,s0)

# /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: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)

# /grubenv
/bootefi(/.*)? gen_context(system_u:object_r:polaris_grub_efi_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_init.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.
# /cpld_util.sh gen_context(system_u:object_r:initrc_exec_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)
/config/.ssh/ssh_host.*_key.pub  gen_context(system_u:object_r:sshd_key_t,s0)
/config/.ssh/ssh_host.*_key         gen_context(system_u:object_r:sshd_key_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisvxe.fc
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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#  

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/isos
files_tmp_filetrans(domain, polaris_boot_tmp_t, dir, "isos")

# 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/bootup_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")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisboot.te
No license file was found, but licenses were detected in source scan.

#
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#
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#

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscfgmgr.fc
* /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/polarisftp.fc
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisinstallmgr.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
### <summary>Polaris Common Policy Rules.</summary>

####################################################################################################################################################################################
# Polaris common
####################################################################################################################################################################################

####################################################################################################################################################################################
### <summary>
### Create a domain for long running Polaris processes in
### confined mode.
### </summary>
## <param name="domain">
##      <summary>
##      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>

```
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>
## <param name="domain">
##      <summary>
##      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>
#
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)'
    ')

####################################################
## <summary>
##      Create a domain for utility Polaris processes in
##  confined mode.
## </summary>
## <param name="domain">
##      <summary>
##      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>
#
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">
## <summary>
## 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>
#
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
# 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)')
')

#########################################################################
## <summary>
## Creates types and rules for a basic
## polaris process domain.
## </summary>
## <param name="stem"
## <summary>
## Stem for the domain. Name is constructed as polaris_stem_t
## </summary>
## </param>
#

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>
## <param name="stem">
## </param>
#

template('polaris_utility_domain_template',`
    type polaris_$1_t;
    type polaris_$1_exec_t;

    polaris_utility_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)
`)
# <summary>
# Allow the specified domain to execute polaris domain process in the caller domain.
# </summary>
#
## <param name="domain">
## Domain allowed access.
## </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">
## Domain allowed access.
## </param>
#
interface('polaris_read_exec_domain',
  gen_require(
    attribute polaris_exec_domain;
    type bin_t;
  )
)
read_files_pattern($1, bin_t, polaris_exec_domain)
')

# <summary>
# 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;
')

interface('polaris_systemd_tmpfiles_tmp_filetrans',
   gen_require(
       type systemd_tmpfiles_t;
   ')
)
files_tmp_filetrans(systemd_tmpfiles_t, $1, $2, $3)')
## socketat through get_netns_fd function call access
## /proc/pid/ns/net file
##
## 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 pid=27619 comm="smd"
## path="net:[4026531957]" dev="proc" ino=4026531957 scontext=sys_u:system_r:polaris_smd_t:s0
## tcontext=sys_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, getattribute, and read from it
##
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_socketat_nsfs_read',
    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)
)

function _polisr_socketat_nsfs_read($1) {  
    kernel_read_system_state($1)
    fs_read_nsfs_files($1)
    genRequire(
        type ifconfig_var_run_t;
    )
    list_dirs_pattern($1, ifconfig_var_run_t, ifconfig_var_run_t)
    
    ... }
sysnet_manage_config_dirs($1)
files_rw_etc_files($1)
allow $1 net_conf_t:file mounton;
allow $1 etc_t:file mounton;
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.
##
## </param>
#
interface('polaris_i2c_use',
    gen_require('device_t;
type polaris_i2c_device_t;

')

rw_chr_files_pattern($1, device_t, polaris_i2c_device_t)
')

#########################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/remap_mem0
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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;
')

#########################################################################
## <summary>
##      Allow the specified domain to read firmware files
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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
##
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
##
## </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
##
## LOOK AT ME!!! LOOK AT ME!!! Missing driver: application works
## with /dev/mem directly
##
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
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:
')

#########################################################################
## Append to /tmp/etc file. First usage to update xinetd.conf files.
## <param name="domain">  
## Domain allowed access.  
## </param>  
#  
interface('polaris_etc_append';
    gen_require(
        type polaris_etc_t;
    ')
    append_files_pattern($1, polaris_etc_t, polaris_etc_t)
')

#########################################################################
## Search /tmp/etc directory
## <param name="domain">  
## Domain allowed access.  
## </param>  
#  
interface('polaris_etc_search';
    gen_require(
        type polaris_etc_t;
    ')
    search_dirs_pattern($1, polaris_etc_t, polaris_etc_t)
')
#### List the contents of /etc directories.

```c
interface('polaris_etc_list',
gen_require('type polaris_etc_t;
')
allow $1 polaris_etc_t:dir list_dir_perms;
')
```

#### Allow domain to attach to TUN devices created by ifconfig_t subject.

```c
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

```c
binos/infra/systemd/scripts/errmsg.sh, might needs /dev/ttyS0
```
## <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
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="subject_exec">
##      <summary>
##      Domain of executable that version can be checked
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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 access page related files such as "/proc/kpageflags"
## </summary>
## <param name="stem">
## Stem for the domain. Name is constructed as polaris_stem_t
## </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">
## Domain allowed access.
## </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.
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)
')

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, "errno_dll")
')

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;
    fs_tmpfs_filetrans($1, polaris_vrf_shm_t, file, "errno_dll")
')
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">#
#Domain allowed access.
#</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">#
#Domain allowed access.
#</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
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)
')

interface('polaris_ldwm_envelope_read',
  gen_require(' type polaris_ldwm_envelope_tmp_t;
       read_files_pattern($1, polaris_ldwm_envelope_tmp_t, polaris_ldwm_envelope_tmp_t)
')

interface('polaris_ggpio_dev_read_write',
  gen_require(' type ggpio_dev_t;
       read_files_pattern($1, ggpio_dev_t, ggpio_dev_t)
       read_files_pattern($1, ggpio_dev_t, ggpio_dev_t)
')
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">
## Domain allowed access.
## </param>
#
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">
## Domain allowed access.
## </param>
#
interface(polaris_serdes_asic_key_tmp_manage,';
   gen_require(
       type 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)
'}
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)
    )

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">
### <summary>
### Domain allowed access.
### </summary>
### </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">
### <summary>
### Domain allowed access.
### </summary>
### </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)
    `)
# Polaris tams_rp Policy Rules.

```plaintext
interface('polaris_tams_rp_socket_connect',
    gen_require(
        type polaris_tams_rp_t;
    
    allow $1 polaris_tams_rp_t:unix_stream_socket connectto;
)
```

# Polariswncd file contexts place holder

```
/mnt/images(./.*)?    gen_context(system_u:object_r:polaris_wlc_ap_images_t:s0)
```

---

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#
# March 2017, Victor Kamensky
#
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#

# /hddisk /hddisk -> /misc/scratch
/hddisk 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
No license file was found, but licenses were detected in source scan.

#
# July 2017, Victor Kamensky
#
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#
/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/polarisesgtmcfg.fc
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#
# February 2020, Victor Kamensky
#
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#
## <summary>Polaris omp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisomp.if
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#

## <summary>Polaris TDLDB Policy Rules.</summary>

### Polaris tdlodb (infra/tdllib)

MAKE SPECIFIED DOMAIN AS ONE OF TDLDB TYPES.

### MAKE SPECIFIED DOMAIN AS ONE OF TDLDB TYPES.

## <param name="domain">

### THE DOMAIN SERVING AS POLARIS_TDLDB TYPE

## </param>

```
interface(`polaris_tdlodb_type',`
gen_require(`
    attribute polaris_tdlodb;
    )
typeattribute $1 polaris_tdlodb;
files_type($1)
')
```

### LIST DIRECTORIES IN /TMP/[RP]P/CC/TDLDB DIRECTORIES.

## LIST DIRECTORIES IN /TMP/[RP]P/CC/TDLDB DIRECTORIES.

## <param name="domain">

### DOMAIN ALLOWED ACCESS.

## </param>

```
interface(`polaris_tdlodb_list_dirs',`
gen_require(`
type polaris_tdlodb_t;
')
    list_dirs_pattern($1, polaris_tdlodb_t, polaris_tdlodb_t)
')
```
## <summary>
## Use tdldb database files in /tmp/[rpfpjc]/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_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/[rpfpjc]/tdldb/persist-config
## </summary>
## <param name="domain">

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## <summary>
## Domain allowed access.
## </summary>
## </param>
## <param name="database_label">
## <summary>
## Database file label.
## </summary>
## </param>
## <param name="object">
## <summary>
## Database file name. Also used to derive lock file name.
## </summary>
## </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)
#`)

########################################
## <summary>
## Manage tdldb directories
## </summary>
## </param>
## <param name="domain">
## <summary>
## The domain serving as polaris_tdldb type
## </summary>
## </param>
# interface(`polaris_tdldb_manage_dirs`,
# gen_require(`
# type polaris_tdldb_t;
#`)
# manage_dirs_pattern($1, polaris_tdldb_t, polaris_tdldb_t)
#`)

########################################
## <summary>
## Use polaris_dir_db_tdldb_t database.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <infoflow type="none"/>
#
interface('polaris_db_tdlldb_dir_use',
    gen_require(
        type polaris_dir_db_tdlldb_t;
    )

    polaris_tdlldb_use($1, polaris_dir_db_tdlldb_t, DB_DIR)
)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdldb.if
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#
# August 2017, Shawn Lu
#
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#

policy_module(polariswncd, 1.0);

    gen_require(
        type polaris_wncd_t;
    )

    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_tdlldb_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_tdlldb_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;
corenent_tcp_bind_http_port(polaris_wncd_t)

#allow udp for dhcpd
corenent_udp_bind_dhcpd_port(polaris_wncd_t)
corenent_udp_bind_generic_node(polaris_wncd_t)
allow polaris_wncd_t self:udp_socket { create_socket_perms recv_msg send_msg };#allow udp for dhcpd

#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 };#allow AF_PACKET

corenent_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
corenent_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_manager(polaris_wncd_t)

*******************************************************************************
# For ewlc, wnnd 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)

# wnnd 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 -> wnnd_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)

# wnnd 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
corenet_udp_bind_mdns_port(polaris_wncd_t)

# bind CAPWAP control and data
corenet_udp_bind_polaris_capwap_ctr_port(polaris_wncd_t)
corenet_udp_bind_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)

# wnnd ewlc-lisp interaction module, connect to lisp map-server on port 4342
corenet_tcp_connect_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_tdldbpersist_setup(polaris_wncd_t)
### <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

```
# July 2018, Victor Kamensky
#
# Copyright (c) 2018-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris ngwc_fed_debug Policy Rules.</summary>

```

```
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)
```

```
# March 2017, Victor Kamensky
#
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#

policy_module(polarispsd, 1.0);
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswned.te

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

# psd need detect which terminal to use as console, need read permission to ttyS*
# psd need read/write grub configure file /boot/grub/menu.*: read /boot/grub/menu.bak
# , generate /boot/grub/menu.list
# 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_tldlb_persist_setup(polaris_psd_t)
polaris_tldlbpersist_setup(polaris_psd_t)

# write mem updates the grub config files
optional_policy('
polaris_grubcfg_manage(polaris_psd_t)
')
# February 2020, Victor Kamensky
#
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#

## <summary>Polaris fpm Policy Rules.</summary>


### Write fpm /var/run socket file

```c
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 };
)`
```

### Manage mqipc fpm2fmrp shared memory file in /dev/shm directory

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

#
# Oct 2020, Xin Xiang
#
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#

### <summary>Polaris Doppler Policy Rules.</summary>

******************************************************************************
### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# interface(`polaris_dmmmap_dev_use',`
   gen_require(
       type device_t;
       type polaris_dmmmap_device_t;
   )
   write_chr_files_pattern($1, device_t, polaris_dmmmap_device_t)
   read_chr_files_pattern($1, device_t, polaris_dmmmap_device_t)
   allow $1 polaris_dmmmap_device_t:chr_file map;
')

******************************************************************************
### <summary>
### Work (read, write, ioctl) with /dev/dmamap
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
#
# 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/polarisdoppler.if
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/fp/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/rp_(.*)/(.*)?           gen_context(system_u:object_r:polaris_chasfs_t,s0)
/tmp/rp/pvp/process_state/(.*)?        gen_context(system_u:object_r:polaris_process_state_t,s0)
/tmp/fp/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.

#
# August 2017, Shawn Lu
#
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#
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 polaris_cpp_il_device_t;
dev_node(polaris_cpp_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)

#define('vwlc_platform',

#define('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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# # March 2017, Victor Kamensky
# # Copyright (c) 2016-2019 by Cisco Systems, Inc.
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#
#
/tmp/sw/boot/rmonbifo(/.*)?  gen_context(system_u:object_r:polaris_rmonbifo_tmp_t,s0)
政策模块 (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)

#if 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('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
No license file was found, but licenses were detected in source scan.

# April 2017, Victor Kamensky
#
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#

genus_module(polarisdmioptamgrd, 1.0);

# allow to get getattr 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 { getattr 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>

# Interface:
```
interface(`polaris_fed_sock_write',`
    gen_require(`
        type polaris_fed_sock_t;
        type polaris_ngwc_fed_t;
        type tmp_t;
    `)
    allow $1 self:unix_stream_socket {create_socket_perms};
    allow $1 polaris_ngwc_fed_t:unix_stream_socket {connectto};
    write_sock_files_pattern($1, tmp_t, polaris_fed_sock_t)
`)```
## Allow the specified domain able to read fed /tmp files.
## <param name="type">
## Domain allowed access.
## </param>
## <param name="object">
## File name in /tmp that the fed domain creates and other domains access.
## </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)
')

## Allow to read and write /tmp/epc_ws/fed_to_wif_pipe file.
## <param name="domain">
## epc_ws_liaison and ngwc-fed pipe interaction.
## </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 };)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisngwcfed.if
No license file was found, but licenses were detected in source scan.

# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
policy_module(polarisdmivtyserverutild, 1.0);

generates('  
    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_filetrans(polaris_dmi_vtyserverutild_tmp_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.fc
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(`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>

# Work (read, write, ioctl) with /dev/ttyS1
</summary>

### <summary>Domain allowed access.</summary>

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.

# # June 2017, Victor Kamensky
# # Copyright (c) 2017-2019 by Cisco Systems, Inc.
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#
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_btracefs_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;
kernell_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/shin/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):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.te
No license file was found, but licenses were detected in source scan.

#
# August 2017, Shawn Lu
#
# Copyright (c) 2017-2019, 2021 by Cisco Systems, Inc.
```c
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)
')

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_epa_device_t)
    allow $1 polaris_epa_device_t:chr_file map;
')
```

---

## <summary>
## Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>

```c
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_epa_device_t)
    allow $1 polaris_epa_device_t:chr_file map;
')
```

---

## <summary>
## Work (read, write, ioctl) with /dev/luna_mbfpga device
## </summary>

```c
```
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)
')

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)
')

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)
')

###################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/oob_evfc device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# 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)
')

###################################################################
## <summary>
##      Work (read, write, ioctl) with /dev/sfp-ktr device
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# 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_vwlc_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)
')

######################################
## <summary>
## Search /dev/vda1 device the efi partition
## </summary>
## <param name="domain">
##      <summary>
##              Domain allowed access.
##      </summary>
## </param>
#
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)
');

# Work (read, write, ioctl) with /dev/vda1 device
#
## Work (read, write, ioctl) with /dev/vda1 device
##<summary>
## Domain allowed access.
##</summary>
##<param name="domain">
#
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)
');

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswlc.if
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('database_stem', translit(patsubst($1, `_DB$', `'), `A-Z', `a-z'))
define('database_label', `format(`polaris_%s_db_tdldb_t', database_stem($1)))

define('database_use_map', `defn(format(``database_use_map[%s-%s]', `$1', `$2')))
define('database_use_map_set', `defn(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
No license file was found, but licenses were detected in source scan.

#
# April 2017, Victor Kamensky
#
policy_module(polarisdmidmiamuthd, 1.0);

gen_require('  
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, { 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)

# read confd log file and push into btrace
polaris_confd_log_read(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
# 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_use_btrace_fifo(polaris_dmid_diag_logs_t)
polaris_btrace_data_manage(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
type polaris_dmid_diag_logs_tmp_t;
files_tmp_file(polaris_dmid_diag_logs_tmp_t)
files_tmp_filetrans(polaris_dmid_diag_logs_tmp_t, file)
manage_files_pattern(polaris_dmid_diag_logs_tmp_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)
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
No license file was found, but licenses were detected in source scan.

# May 2017, Victor Kamensky
#
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#

/opt/confd/bin/confd -- gen_context(system_u:object_r:polaris_confconfd_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_confconfd_exec_t,s0)
/usr/bin/conf/confd_script_cdb_backup.sh -- gen_context(system_u:object_r:polaris_confconfd_exec_t,s0)
/usr/binos/conf/confd cli.sh -- gen_context(system_u:object_r:polaris_confconfdCli_exec_t,s0)
/usr/binos/conf/confd_logs.sh -- gen_context(system_u:object_r:polaris_confconfd_exec_t,s0)
/var/confconfd0(/.*)? gen_context(system_u:object_r:polaris_confconfd_var_t,s0)
/dev/shm/confconfd(/.*)? gen_context(system_u:object_r:polaris_confconfd_shm_t,s0)
/tmp/confconfd_cli(/.*)? gen_context(system_u:object_r:polaris_confconfd_cli_tmp_t,s0)
/tmp/vconfconfd_cli(/.*)? gen_context(system_u:object_r:polaris_vconfconfd_tmp_t,s0)
/usr/bin/vconfconfd_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_confconfd_var_log_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisconfconfd.fc
No license file was found, but licenses were detected in source scan.
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/rpcd_t
polaris_domain_maybe_unconfined/ssh_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/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
No license file was found, but licenses were detected in source scan.

#
# July 2020, Victor Kamensky
#
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#
/tmp/HTX-IOX(/.*)? gen_context(system_u:object_r:polaris_hcx_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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#
/usr/binos/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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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.

#
# November 2020, Christine Hwang
#
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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_manage(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_manage(polaris_cabo_gnss_t)
dev_manage_sysfs_dirs(polaris_cabo_gnss_t)

# Allow Cabo GNSS to access/modify to GPS GPIO
polaris_cgpio_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_use(polaris_cabo_gnss_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscabognss.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
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', `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)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/wlcmaps.m4
No license file was found, but licenses were detected in source scan.

#
# 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.

#
# March 2017, Victor Kamensky
#
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#

policy_module(polarissmd, 1.0);
gen_require('  
  type polaris_smd_t;
')

# mqipc manual, one that missing in platform tdl file

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_tdlldb_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_tdlldb_dir_use(polaris_smd_t)

# access to persist tdlldb (e.g. .dbpersist)
polaris_tdlldbpersist_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_smd_disk_t, polaris_smd_disk_t)
  ')  
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
# 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 listen 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
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
No license file was found, but licenses were detected in source scan.

#
# February 2020, Victor Kamensky
#
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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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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_insmmod(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_rw_cgroup_files(polaris_vman_t)
kernal_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 persiststen 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;
)

# `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_t, polaris_vman_tmp_t, { file dir })
polaris_systemd_tmpfiles_tmp_filetrans(polaris_vman_tmp_t, dir, "vman")
manage_files_pattern(polaris_vman_t, polaris_vman_tmp_t, polaris_vman_tmp_t)
manage_dirs_pattern(polaris_vman_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_tdlldbpersist_setup(polaris_vman_t)
polaris_tmp_tdlldb_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_yamn.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 permission
# 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_usersns sys_admin
allow polaris_vman_t self:cap_usersns 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/stdout 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/bin/os/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/stdout 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/bin/os/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/stdout 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_domtrans(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)
# getattrs 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/netns/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
type polaris_vman_tech_tmp_t;
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_tech_t, virt_log_t, virt_log_t)
virt_read_log(polaris_vman_tech_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 getattr 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)
corennet_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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# # March 2017, Victor Kamensky #
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#

/tmp/.ncsshdAuthorizedKeys(/.*)? gen_context(system_u:object_r:ncsshd_keys_t:s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsd.fc
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# Obfl policy

## <summary>Polaris Btrace Policy Rules.</summary>

```c
# Obfl policy

## <summary>
##      Read obfl files (under /obfl, /varied/obfl, etc)
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_obfl_data_read',`
    gen_require(`
        type polaris_obfl_data_t;
        type root_t;
    `)
    read_lnk_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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)
    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;
`)
```
read_link_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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#
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#

### <summary>Polaris Btrace Policy Rules.</summary>

# RIPC policy

### <summary>
## Work with ripc
### </summary>
### <param name="domain">
## Domain allowed access.
### </summary>
### </param>
### <rolebase/>
#
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/polarisripc.if
No license file was found, but licenses were detected in source scan.

# March 2017, Victor Kamensky
#
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#
/tmp/sw/boot(/.*)?               gen_context(system_u:object_r:polaris_boot_tmp_t,s0)
/tmp/sw/isos(/.*)?               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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#
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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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# March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarisboothelper Policy Rules.</summary>

###########################################
## <summary>
##      Read any regular file/directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
# 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)
  ')

###########################################################
## <summary>
##      Manage any regular file/directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# 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)
  ')

###########################################################
## <summary>
##      Listdir of any regular directory from /tmp/udev.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
# 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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#
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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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#
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#
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#

/usr/binos/conf/mcp_monitor_process_batchmode.sh --
gen_context(system_u:object_r:polaris_monitor_process_exec_t,s0)
/usr/binos/conf/pkg_summary.sh -- gen_context(system_u:object_r:polaris_pkg_summary_exec_t,s0)
/usr/binos/conf/pkg_to_tree.sh -- gen_context(system_u:object_r:polaris_pkg_to_tree_exec_t,s0)

/tmp/myhostname gen_context(system_u:object_r:polaris_hm_tmp_t,s0)
Open Source Used In Cat9K 17.7.1 9696

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polarishm.fc
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# August 2017, Shawn Lu
#
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#
#
## <summary>Polaris odm Policy Rules.</summary>

#######################################
## <summary>
## Mqipc channel in sub directory and multiple servers on TDL
## channel is not supported by autogen code. ODM odm_clnt2svr_data
## channel is one of those. Allow domain to be one server on it.
## ODM elastic value is 2 now, add more if need in the future.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="mqipc_label">
##      <summary>
##      Mqipc channel file label.
##      </summary>
## </param>
#
interface(‘polaris_odm_clnt2svr_mqipc_create’,
            gen_require(’
               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>

######################################
## <summary>
##     Read /tmp/sw/inst_tmp_1 files and directories
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </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)
)

######################################
## <summary>
##     Read/Write /.installer  files and directories
## </summary>
## <param name="domain">
##     <summary>
##     Domain allowed access.
##     </summary>
## </param>
#
interface(`polaris_install_disk_manage`,
    gen_require(`
        type polaris_disk_bootflash_t;
        type polaris_disk_install_t;
    `)
    list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_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)
"

######################################
## <summary>
## Read /bootflash/.installer files and directories
## </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)
  ')
)

#######################################
## <summary>
## Read copylog files (location varies by platform)
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
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_lnk_files_pattern($1, polaris_user_file_t, polaris_user_file_t)
  ')
)
### <summary>
### getattrib for copylog files (location varies by platform)
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <rolebase/>

#
# interface(`polaris_user_file_getattrib`,
#   gen_require(`
#     type polaris_user_file_t;
#     type device_t;
#   `)
#   getattrib_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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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisjvm.fc
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dnl
dnl April 2018, Victor Kamensky
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_vconfd_cfg_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_device_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_device_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_crt_chain.sh -- gen_context(system_u:object_r:polaris_vconfd_cert_exec_t,s0)
/usr/bin/vconfd_script_uninstall_root_ca_crt_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_tslproxy_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_vsystar_serial_numbers\sh --
gen_context(system_u:object_r:polaris_vconfd_serialnum_exec_t,s0)
/usr/bin/vconfd_script_upload_vege_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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#

policy_module(polarisidlresolve, 1.0);

########################################################################
# TDLresolve policy
########################################################################
gen_require("
    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);

############################################################################
# rsync policy
############################################################################

gen_require("
    type rsync_t;
    type polaris_btrace_base_t;
")
#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;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristdlresolve.te
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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#

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_iodbdt)
kernl rw_irq_sysctls(polaris_iodbdt)

# allow read variety of system information from sysfs, as well as write
# into configuration of some pcie devices
# type=AVC msg=audit(1479597104.739:218): avc: denied { write } for
# pid=30997 comm="ucode_ctl_rx"
name="config" dev="sysfs" ino=22363 scontext=system_u:system_r:polaris_qfp_t:s0
tcontext=system_u:object_r:sysfs_t:s0 tclass=file
device 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
device 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
kernel_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 hugetlbs files
fs_manage_hugetlbs_dirs(polaris_qfp_t)
fs_rw_hugetlbs_files(polaris_qfp_t)
gen_require(
  type hugetlbs_t;
)
allow polaris_qfp_t hugetlbs_t:file create;

# dpdk may unlinks unneeded pages in unmap_unneeded_hugepages function
allow polaris_qfp_t hugetlbs_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;
dev_node(polaris_netmap_device_t)
polaris_netmap_dev_use(polaris_qfp_t)

# access to /dev/icp_XXX device on crankshaft platforms
optional_policy(
  polaris_icp_dev_use(polaris_qfp_t)


# netmap device (/dev/svc_eng_puntNN)
type polaris_sep_device_t;
dev_node(polaris_sep_device_t)

polaris_svc_eng_punt_dev_use(polaris_qfp_t)

# transition and access to /var/log/cdal-tns-info.log
ifdef(`tsn_platform',`
   polaris_qfp_log_manage("cdal-tns-info.log")
')

# transition and access to /var/log/cdal-tns-info.log
ifdef(`blackheart_platform',`
   polaris_qfp_log_manage("cdal-tns-info.log")
')

# aventus needs access to /sys/devices/platform/cpn-110-master/cpn-110-master
# for boot configuration
# transition and access to /var/log/cdal-tns-info.log
ifdef(`aventus_platform',`
gen_require(`
   type syslogd_t;
')
polaris_qfp_log_manage("cdal-tns-info.log")
polaris_ggpio_dev_read_write(polaris_qfp_t)
polaris_ggpio_dev_read_write(syslogd_t)
'

# transition and access to /var/log/cdal-tns-info.log
ifdef(`cabo_platform',`
   polaris_qfp_log_manage("cdal-tns-info.log")
')

# transition and access to /var/log/cdal-tns-info.log
ifdef(`supernova_platform',`
   polaris_qfp_log_manage("cdal-tns-info.log")
')

# LOOK AT ME: qfp process links libcrypto.so.1.0.0 which has DT_TEXTREL
# that should be addressed by CSCvJ99896, once that is fixed remove below
# under CSCvJ99905.
gen_require(`
   type lib_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 CSCvk66808, once that is fixed remove below
# under CSCvk66832.
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 hidedir 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 }
corenet_rwlock_t corenet_rwlock_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_ggpio_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_iodbd_t;
')
allow polaris_qfp_t polaris_iodbd_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_iodbdomtrans(initrc_t)
polaris_boot_tmp_read(polaris_iodbd_t)
polaris_chasfs_manage(polaris_iodbd_t)
polaris_cpld_read(polaris_iodbd_t)
polaris_rmonbifo_tmp_read(polaris_iodbd_t)
auth_use_nsswitch(polaris_iodbd_t)
corecmd_exec_bin(polaris_iodbd_t)

# hot add interfaces virtio/sriov
dev_manage_sysfs_dirs(polaris_iodbd_t)
polaris_sysfs_manage(polaris_iodbd_t)

# write into sysfs file like /sys/devices/pci0000:00/0000:00:00.00:03.2/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_iodb_d_t)
# lspci reads /lib/modules/5.4.40/modules.softdep
files_read_kernel_modules(polaris_iodb_d_t)
files_map_kernel_modules(polaris_iodb_d_t)

# runs dmidecode
dmidecode_domtrans(polaris_iodb_d_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 intsvc0
sysnet_domtrans_ifconfig(polaris_iodb_d_t)

# reads /etc/rc.d/init.d/binos_functions-pd-iodb
init_read_script_files(polaris_iodb_d_t)

# reads /proc/sys/vm/hr_hugepages
kernell_read_vm_sysctls(polaris_iodb_d_t)

# cat /sys/class/net/intsvc0/address
dev_read_sysfs(polaris_iodb_d_t)

# reads /proc/cmdline
kernel_read_system_state(polaris_iodb_d_t)

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

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

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#
#
policy_module(polarisngwctblmgr, 1.0);

gen_require('  
    type polaris_ngwc_tbl_mgr_t;
  ')

polaris_btrace_data_manage(polaris_ngwc_tbl_mgr_t)
polaris_crft_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)
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#

# polarisfsmanrp file contexts place holder

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dnl
dnl April 2018, Victor Kamensky
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_ripc_service_client', `dnl
polaris_ripc_service_client_aux(ripc\_label($1), ripc\_stem($1), process\_label($2))dnl
')
Open Source Used In Cat9K 17.7.1  9712

* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/polaris_ipc_rripe_te.m4
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#
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#

/usr/binos/conf/audit_log.sh -- gen_context(system_u:object_r:polaris_audit_log_exec_t,s0)
/usr/binos/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/binos/conf/mcp_upgrade_hwprg.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_fpga.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cpld.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_cmds.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_hwprg_utils.sh gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)
/usr/binos/bin/tam_fw_upgrade gen_context(system_u:object_r:polaris_hw_upgrade_exec_t,s0)

/usr/binos/conf/mcp_upgrade_rommon.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_cmds.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/conf/mcp_upgrade_rommon_helper.sh gen_context(system_u:object_r:polaris_rom_upgrade_exec_t,s0)
/usr/binos/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
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#
# June 2020, Cuiyan Ma
#
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#

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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#
## <summary>Polaris dmi_opdatamgrd Policy Rules.</summary>

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* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisdmioopdatamgrd.if
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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_tlddb_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)

allow polaris_pttcd_t self:tcp_socket create_stream_socket_perms;

allow polaris_pttcd_t self:udp_socket create_socket_perms;

corenets_tcp_bindGenericNode(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

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#
# August 2017, Shawn Lu
#
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#

policy_module(polarisrrmmgr, 1.0);
gen_require(
    type polaris_rrm_mgr_t;
)

polaris_btrace_data_manage(polaris_rrm_mgr_t)
polaris_chasfsManage(polaris_rrm_mgr_t)
polaris_tdlresolve_read(polaris_rrm_mgr_t)
polaris_tdlldb_list_dirs(polaris_rrm_mgr_t)
polaris_cpld_read(polaris_rrm_mgr_t)
polaris_lua_read(polaris_rrm_mgr_t)
polaris_flashlib_read(polaris_rrm_mgr_t)
polaris_ripc_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/tdldb/persistent-config/ dir and files in this dir
polaris_tmp_tdlldb_persist_setup(polaris_rrm_mgr_t)

logging_send_syslog_msg(polaris_rrm_mgr_t)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisrrmmgr.te
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#
# April 2017, Victor Kamensky
#
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#

policy_module(polariscyan, 1.0);

# dyncfg_setup.sh runs under cmand label

polaris_process_domain_template(dyncfg)

polaris_btrace_data_manage(polaris_dyncfg_t)
polaris_cpld_read(polaris_dyncfg_t)
polaris_lua_read(polaris_dyncfg_t)
polaris_cpld_dev_use(polaris_dyncfg_t)
polaris_rmonbifo_tmp_read(polaris_dyncfg_t)
polaris_chasfs_read(polaris_dyncfg_t)

# this script works with /tmp/dyncfg files

type polaris_dyncfg_tmp_t;
files_tmp_file(polaris_dyncfg_tmp_t)

files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, dir, "cyan")
files_tmp_filetrans(polaris_dyncfg_t, polaris_dyncfg_tmp_t, file)

manage_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_dirs_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)
manage_lnk_files_pattern(polaris_dyncfg_t, polaris_dyncfg_tmp_t, polaris_dyncfg_tmp_t)

corecmd_exec_bin(polaris_dyncfg_t)
corecmd_exec_shell(polaris_dyncfg_t)

# allow read of /etc/group and /etc/passwd
auth_use_nsswitch(polaris_dyncfg_t)

# allow to read /proc/meminfo
kernel_read_system_state(polaris_dyncfg_t)

# dyncfg_setup calls luajit and luajit needs execute JIT generated code
allow polaris_dyncfg_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)")

#if access to /dev/dash_fpga device on fugazi platform
ifdef(fugazi_platform, 
    polaris_dash_dev_mcp_use(polaris_dyncfg_t)
"
"
#else access to /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)
"
"
#else on Ultra 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/eeprom
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)
')

ifdef(`ngwc_family',`
# during wlc subpackage install cyan_init.sh called from
# C9800-Wireless_startup_script.sh script and output redirected
# into some install_tmp file
  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)
)
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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',
    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;
    )
)

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">
##      Domain allowed access.
## </param>
#
interface('polaris_iox_dir_list',
    gen_require(
        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_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 }, 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_hdd_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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
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)
)

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)
)

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_link_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>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
# 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>
##      Manage .../guestshell/rootfs_mnt/cisco/cisco_cli/
## This files are used to communicate between guestshell container
## iosd, and shell_exec.sh
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# 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>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
# interface('polaris_guestshell_key_read',`
    gen_require('
```c

 type etc_t;
 type polaris_guestshell_ssh_key_t;

)

 read_files_pattern($1, etc_t, polaris_guestshell_ssh_key_t)

')

##########################################################
## <summary>
##      Manage ../local/local1/core_dir/
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
interface(`polaris_caf_local_core_files_manage',`
optional_policy(`
gen_require(`
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)
')

')

##########################################################
## <summary>
##      Manage /mnt/sd3/iox_alt_hdd.dsk and
##      /mnt/sd3/iox_alt_hdd_mount_dir
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <rolebase/>
#
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)

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)
    )

######################################
## <summary>
##      Manage tty device chr files.
## </summary>
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)
   )

interface(`polaris_caf_domtrans',
     gen_require(
       type polaris_caf_t, polaris_caf_exec_t;
     )

domtrans_pattern($1, polaris_caf_exec_t, polaris_caf_t)
   )

interface(`polaris_caf_proc_signal_perms',
     gen_require(
       type polaris_caf_t;
     )

allow $1 polaris_caf_t:process sigkill;
')

########################################################################
## <summary>
## Write/read /tmp/ioxss_up file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
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)
')

########################################################################
## <summary>
## Getattr of iosd_portal_app_lipc socket file
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
## <rolebase/>
#
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
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscppcp.fc
No license file was found, but licenses were detected in source scan.

#
# March 2017, Victor Kamensky
#
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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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#
# November 2017, Victor Kamensky
#
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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_tdlldb_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_tdlx.db_dir_use(polaris_gnmib_t)

optional_policy(''
# deals with /dev/shm/confd setup (schema and pid)
polaris_confd_shm_setup(polaris_gnmib_t)
# and allow read shared schema
polaris_confd_shared_schema_read(polaris_gnmib_t)
# from evconfd_dynamic_load
polaris_confd_shared_schema_watch(polaris_gnmib_t)
# read /proc/confd_pid/exe file
polaris_confd_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_confd_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
corenct_tcp_bind_generic_port(polaris_gnmib_t)
allow polaris_gnmib_t self:tcp_socket { shutdown };
corenct_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_link_files_pattern(polaris_gnmib_t, polaris_gnmib_var_t, polaris_gnmib_var_t)

# read access to /dev/random
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)

# need to execute install engine scripts
polaris_install_engine_domtrans(polaris_gnmib_t)

# need access to shell to execute install scripts
corecmd_exec_shell(polaris_gnmib_t)
corecmd_exec_bin(polaris_gnmib_t)

# install script needs rmonbifo
polaris_rmonbifo_tmp_read(polaris_gnmib_t)

# not sure why this is needed
auth_map_passwd(polaris_gnmib_t)

#DB persistence
polaris_tdldbpersist_setup(polaris_gnmib_t)
polaris_tmp_tdldb_persist_setup(polaris_gnmib_t)

allow polaris_gnmib_t self:capability sys_resource;

# needed to fstat and check space when transferring image for os.proto install rpc
fs_getattr_xattr_fs(polaris_gnmib_t)

# needed by gnmib ui because uipeer heartbeat timer accesses TDL epoch files
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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#
# October 2019, Patrick O’Halloran
#
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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
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#
# 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/polariscmm.fc
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#
# 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_link_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;
`)

#######################################
### <summary>
### Manage polaris_sw_data_t, effectively path to set up polaris
### base image packages house holding
```
## <summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## </summary>
#
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_lnk_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;
')

########################################
## <summary>
## Read polaris_patch_data_t, effectively path to read polaris
## smu patch or optional packages
## <summary>
## <param name="domain">
## <summary>
## Domain allowed access.
## </summary>
## <summary>
#
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_lnk_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)
')

#######################################
## <summary>
##      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;
')

########################################
## <summary>
##	Write into tmp files created by install_show.sh
## </summary>
## <param name="domain">
##	<summary>
##	Domain allowed to transition.
##	</summary>
## </param>
##</rolebase/>
#
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)
')
### Read tmp files created by install_show.sh

```c
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)
''
)
```

### Manage tmp installer files and directories

```c
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)
''
)
```

### Manage /bootflash/.issu_loc_lock files

```
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)
''
)
```

---

Open Source Used In Cat9K 17.7.1 9739
## Domain allowed access.
## <summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
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.
## </param>
#
interface('polaris_issu_tmp_filesManage',
  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">
## Domain allowed access.
## </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

### <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;
')

###<summary>
### Execute install related scripts in its own domain.
### </summary>

### <param name="domain">

### <summary>
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)
')

###########################################################
## <summary>
##     Write into tmp log files created by install engine
## </summary>
## <param name="domain">
##     <summary>
##     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)
')

###########################################################
## <summary>
##      Execute install selinux related scripts in its own domain.
## </summary>
## <param name="domain">
##      <summary>
##      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">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </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">
##      <summary>
##      Domain allowed to transition.
##      </summary>
## </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">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
interface(`polaris_pkg_cs_debug_manage',`
   gen_require(
       type 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)
)

######################################
## <summary>
## Manage /file which is generated on "flock -u file /tmp/sysctrl_i2c.lck"
## </summary>
## <param name="domain">
## Domain allowed access.
## </param>
#
interface(`polaris_i2c_lock_file_manage',`
    gen_require(`
        type 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)
`)

######################################
## <summary>
## write /tmp/installer files and directories
## </summary>
## <param name="domain">
## Domain allowed to transition.
## </param>
#
interface(`polaris_install_tmp_write',`
    gen_require(`
        type 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">
## </param>

## Domain allowed access.

```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)
')
```

---

## Read ISSU tmp files

```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

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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_sockets(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)
f$s_m 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 };

polaris_caf_var_run_files_manage(polaris_iox_container_t)
# permit access to /local core files between host and container
polaris_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.
# I.e 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)
Open Source Used In Cat9K 17.7.1 9751

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_utdl_container(polaris_sdavc_container_t)

# manage /tmp/xml/{SDAVC*} dirs
polaris_yman_log_files_manage(polaris_sdavc_container_t)

# legacy SDAVC containder 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 & tmpfs_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:filesystem mount;
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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# March 2017, Victor Kamensky
#
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#
## <summary>Polaris polarispvp Policy Rules.</summary>

  

### <summary>Polaris polarispvp Policy Rules.</summary>


## <summary>
   # Execute a domain transition to run pvp.

## <summary>
## <param name="domain">
##  <summary>
##  Domain allowed to transition.
##  </summary>
## </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">
##  <summary>
##  Domain allowed access.
##  </summary>
## </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/[rfp|fcp]/pvp/process_state.
## </summary>
## <param name="domain">
##  <summary>
##  Domain allowed access.
##  </summary>
## </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)

### <summary>
### Getattr dirs pvp temporary files and directories in /tmp.
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

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)
`

### <summary>
### Read from pvp stdin. Should be granted to scripts spawned
### from pvp with domain transition. pvp stdin (0) points to fifo
### file like /tmp/rp/pvp/work/inot_fifo
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>

interface(`polaris_pvp_stdin_read', `
   gen_require(`
      type polaris_pvp_tmp_t;
   `)

   read_fifo_files_pattern($1, polaris_pvp_tmp_t, polaris_pvp_tmp_t)
`
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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/[rpfp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </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/[rpfp|cc/*]/pvp/sai_process.
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
#
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;
)

******************************************************************************
## <summary>
##      Watch pvp process_state directories
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
## </summary>
## </param>
## <rolebase/>
#
interface(`polaris_process_state_watch`,
  gen_require(`
  type polaris_process_state_t;
  `)
  allow $1 polaris_process_state_t:dir watch;
`)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispvp.if
No license file was found, but licenses were detected in source scan.
#
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#
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#

policy_module(polarisrmonbifo, 1.0);

******************************************************************************
# Polaris Rmonbifo Driver policy
******************************************************************************

# 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")
Open Source Used In Cat9K 17.7.1  9757

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarismonbifo.te
No license file was found, but licenses were detected in source scan.

#
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#
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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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#
# August 2017, Shawn Lu
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#
#
# polarisodm file contexts place holder

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisodm.fc
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#
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#
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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)
/usr/bin/os/conf/auto_upgrade_client_helper.sh -- gen_context(system_u:object_r:polaris_autoupgrade_exec_t,s0)
/tmp/etc/installer    gen_context(system_u:object_r:polaris_autoupgrade_tmp_t,s0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisautoupgrade.fc
No license file was found, but licenses were detected in source scan.

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#
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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

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

# July 2017, Victor Kamensky
#
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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/conf/runin.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)

# 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 wncd 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_lnk_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;
manage_files_pattern($1, polaris_wlc_ap_images_t, polaris_wlc_ap_images_t)
manage_lnk_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")

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariswncd.if

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#
# July 2017, Victor Kamensky
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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>
#

Open Source Used In Cat9K 17.7.1 9760
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/polarisgtamcfg.if
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#
# March 2017, Victor Kamensky
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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;
    )
    type attribute $1 polaris_mqipc;
    files_type($1)
)

#######################################
## <summary>
##      Manage mqipc shared memory file in /dev/shm directory
## </summary>
## <param name="domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="mqipc_label">
##      <summary>
##      Mqipc file label.
##      </summary>
## </param>
## <param name="object">
##      <summary>
##      Mqipc channel file name stem. It is used to derive set of file names
##      used by MQIPC.
##      </summary>
## </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)
')
```

### <summary>
### 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.
### </summary>

```
"domain">
##      <summary>
##      Domain allowed access.
##      </summary>
## </param>
## <param name="mqipc_label">
##      <summary>
##      Database file label.
##      </summary>
interface(`polaris_mqipc_create_name_dir`,
  gen_require("
  type tmpfs_t;
  type tmp_t;
  
  manage_files_pattern($1, { tmpfs_t $2 }, $2)
  allow $1 $2:file map;
  manage_dirs_pattern($1, tmpfs_t, $2)
  type_transition $1 tmpfs_t : { file dir } $2 "mq.-$3";
  manage_fifo_files_pattern($1, { tmp_t $2 }, $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)
  
  )

interface(`polaris_mqipc_use`,
  gen_require("
  type tmpfs_t;
  
  read_files_pattern($1, { tmpfs_t $2 }, $2)
  write_files_pattern($1, { tmpfs_t $2 }, $2)
  read_fifo_files_pattern($1, { tmp_t $2 }, $2)
  write_fifo_files_pattern($1, { tmp_t $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">
## Domain allowed access.
### </param>
### <rolecap/>
#
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_link_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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#
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#
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#
### <summary>Polaris Tmp Boot Policy Rules.</summary>
### <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">
### Domain allowed access.
### </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">
### Domain allowed access.
### </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>
### Map any polaris_boot_tmp_t file, needed during install.
### </summary>
### <param name="domain">
### Domain allowed access.
### </summary>
```c
#include <polaris_boot_tmp_map>;

type polaris_boot_tmp_t;

allow $1 polaris_boot_tmp_t:file map;

########################################
## <summary>
##
## </summary>
## <param name="domain">
##
## </param>
## <param name="object">
##
## </param>
## <param name="name" optional="true">
##
## </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>
##
## </summary>
## <param name="domain">
##
## </param>
## <param name="object">
##
## </param>
## <param name="name" optional="true">
##
## </param>
#

interface('polaris_boot_tmp object',

gen_require('type polaris_boot_tmp_t;
')

manage_files_pattern($1, polaris_boot_tmp_t, polaris_boot_tmp_t)
')
```
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">
### Domain allowed access.
### </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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#
# February 2020, Victor Kamensky
#
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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(cedge_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, "tian")

# 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/booteed appearance
gen_require('type tmp_t;
')
allow polaris_cedge_tanman_t tmp_t:dir watch;

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polariscedgetanman.te
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#
# 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">
### Domain allowed access.
### </param>
#

```c
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)
```

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.10/selinux-tar/selinux/polaristlscd.if

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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
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)
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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>

### </summary>

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">

### <summary>Domain allowed access.</summary>

### </param>

interface('polaris_domain_maybe_unconfined',

    gen_require(
        attribute polaris_storage_unconfined_type;
    )
    typeattribute $1 polaris_storage_unconfined_type;
')
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;
')

########################################
## <summary>
##	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">
##	<summary>
##	Domain allowed access.
##	</summary>
## </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)
    )
  )
)
interface('polaris_kernel_unconfined',
    gen_require(''
        attribute proc_type;
        attribute syscall_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 syscall_type :{ file } ~entrypoint;
    allow $1 syscall_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 domain: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:lnk_file { read_lnk_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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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;
    )

#selinux_set_all_booleans($1)
#selinux_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>

# 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:ns daemon all_ns_perms;
allow $1 self:db user all_db_perms;
allow $1 self:pass wd all_password_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`
#nsd_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">
## Domain allowed access.
## </summary>
interface(SDL_device_num_t)`

policy_module(polarisfmancc, 1.0);

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_tdldb_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)

logging_send_syslog_msg(polaris_fman_cc_t)

polaris_icc_broken_relocations(polaris_fman_cc_t)
polaris_cpp_process(polaris_fman_cc_t)
polaris_cpp_tmp_files_use(polaris_fman_cc_t)

---

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March 2019, Shikhar Dogra

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---

Open Source Used In Cat9K 17.7.1 9780
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
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dnl
  dnl May 2020, Swati Kumari
  dnl
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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):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/m4/rpx86maps.m4
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#
  # March 2017, Victor Kamensky
  #
## <summary>Polaris polarispsvp Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarispsvp.if
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#
# September 2017, Victor Kamensky
#
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#

/tmp/tmppub(/.*)?  gen_context(system_u:object_r:polaris_btrace_t,0)

# btrace utility to rotate logs
/usr/binos/bin/btman_rotate Immediate -- gen_context(system_u:object_r:polaris_btman_exec_t,0)

# btrace utility to dump meta data
/usr/binos/bin/dump_btrace_meta -- gen_context(system_u:object_r:polaris_btman_exec_t,0)

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisbtman.fc
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#
# 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
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#
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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
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#
# 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")

# chasync

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_temp_t;
files_type(polaris_chasync_temp_t)
files_temp_file(polaris_chasync_temp_t)
files_temp_filetrans(polaris_chasync_temp_t, polaris_chasync_temp_t, dir, "chasync")
manage_files_pattern(polaris_chasync_temp_t, polaris_chasync_temp_t, polaris_chasync_temp_t)
manage_dirs_pattern(polaris_chasync_temp_t, polaris_chasync_temp_t, polaris_chasync_temp_t)
manage_fifo_files_pattern(polaris_chasync_temp_t, polaris_chasync_temp_t, polaris_chasync_temp_t)

# allow creation/access of temporary files created by chasync.sh like
# /tmp/sh-thd-1499428203 etc
files_temp_filetrans(polaris_chasync_temp_t, polaris_chasync_temp_t, file)
manage_files_pattern(polaris_chasync_temp_t, polaris_chasync_temp_t, polaris_chasync_temp_t)

fs_getattr_tmpfs(polaris_chasync_temp_t)

# access of flash util for the domain
polaris_flashlib_read(polaris_chasync_temp_t)

# read /proc/cmdline
kernel_read_system_state(polaris_chasync_temp_t)

gen_require(`
   type rsync_t;
   type init_t;
   type rsync_temp_t;
`)
rsync_entry_domtrans(polaris_chasync_temp_t, rsync_t)
allow rsync_t polaris_chasync_temp_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_temp_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_temp_t
allow rsync_t rsync_temp_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_rwlock_sysctls(rsync_t)
 mount_domtrans(rsync_t)
 ftools_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)
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)

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* /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 ucodeDRAM 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_tmp_t)
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "cpp_anon_db")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, file, "qm_rt_dbg")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_rep")
files_tmp_filetrans(polaris_cpp_domain, polaris_cpp_tmp_t, fifo_file, "cpp_ifdev_rep")
manage_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
manage_fifo_files_pattern(polaris_cpp_domain, tmp_t, polaris_cpp_tmp_t)
allow polaris_cpp_domain polaris_cpp_tmp_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)
# July 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
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#
## <summary>Polaris ngiolite Policy Rules. </summary>

# 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)
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_tdlresolve_read(polaris_cm_cc_t)
polaris_tdlldb_list_dirs(polaris_cm_cc_t)
polaris_cpld_read(polaris_cm_cc_t)
polarisLua_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 1ng works with /dev/cpld-virtual-cc
polaris_cpp_dev_use(polaris_cm_cc_t)

polaris_i2c_use(polaris_cm_cc_t)
deviceRWsysfs(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/cmlib_msgs/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_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_cm_tmpfs_t)
dev_read_sysfs(polaris_cm_cm_t)
dev_getattr_sysfs_fs(polaris_cm_cm_t)
fs_getattr_tmpfs(polaris_cm_cm_t)

# /tmp/udev-cc should it not be polaris_udev_tmp_t

type polaris_cm_cm_tmpfs_t;
files_tmpfs_file(polaris_cm_cm_tmpfs_t, dir, "udev-cc")

manage_files_pattern(polaris_cm_cm_t, polaris_cm_cm_tmpfs_t, polaris_cm_cm_tmpfs_t)
gen_require(
  type tmp_t;
)
manage_dirs_pattern(polaris_cm_cm_t, tmp_t, polaris_cm_cm_tmpfs_t, polaris_cm_cm_tmpfs_t)

# on tsn need access to /dev/moka_fpga
optional_policy(
  polaris_mokafpga_dev_use(polaris_cm_cm_t)
)

optional_policy(
  # betelgeuse need access to /dev/sirius_fpga
  polaris_sirius_fpga_dev_use(polaris_cm_cm_t)
)

# on macallan need access to /dev/quack
optional_policy(
  polaris_quack_dev_use(polaris_cm_cm_t)
)

polaris_cpld_write(polaris_cm_cm_t)

optional_policy(
  # on starfleet access gettysburg_fpga
  polaris_gettysburg_fpga_dev_use(polaris_cm_cm_t)
)

"Open Source Used In Cat9K 17.7.1 9794"
# /dev/epactIN 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 cman.cc
   # 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_domtrans_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/chdrvmmap for asic memory mapping
optional_policy(`
polaris_chdrvmmap_dev_use(polaris_cm_cc_t)
`)

ifdef(`vxe_family`,
# bind to BMC_AGENT_CLIENT_PORT port from cman_tlv_init
corenet_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_manage" for polaris_cm_cc_t
# to acces /tmp/cmlib_eeprom_sim_smartctl.out
polaris_cm_rp_tmp_manage(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
No license file was found, but licenses were detected in source scan.

#
# June 2017, Victor Kamensky
#
# Copyright (c) 2017-2019 by Cisco Systems, Inc.
# All rights reserved
#
## <summary>Polaris tservice Policy Rules.</summary>

Found in path(s):
* /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polaristservice.if
No license file was found, but licenses were detected in source scan.

#  
# March 2017, Victor Kamensky  
#  
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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

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

#  
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#  

## <summary>Polaris Storage Policy Rules.</summary>

# Persistent storage policy

### <summary>Make the specified type usable as default type for files in a Polaris persistent (bootflash, hardisk, etc) filesystem.</summary>

### <param name="type">

Type to be used for files.

### </param>

#
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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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">
## Domain allowed access.
## </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)
#)
Map any regular file/directory from persistent storage.

## <summary>
## Domain allowed access.
## </summary>

interface(`polaris_persistent_map',

    gen_require(`
        attribute polaris_disk;
    `)
    allow $1 polaris_disk:file map;
)

# debug.conf

Read debug.conf from persistent storage.

## <summary>
## Domain allowed access.
## </summary>

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

# 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">
## Domain allowed access.
## </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">
# Domain allowed access.
# </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">
# Domain allowed access.
# </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)
`)

# List/read /varied directory
## <summary>
## Domain allowed access.
## </summary>
## </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>
## </param>
#
# 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_t 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>
## <param name="domain">
## 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)
)

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)
)

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>
## Domain allowed access.
## </summary>
#
# 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)
#             ')
#
# Write/read any regular file/directory under /objstore,
## <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)
#             ')
##
## Write/read any regular file/directory under /csl_p_0/, /csl_p_1, /csl_s_0, and /csl_s_1
## <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)
#             ')
##
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)
)

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)
)

interface('polaris_harddisk_read',
    gen_require(  
    )
    read_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
    list_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
)
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)
)

#####################################################
## <summary>
##    Read bootflash files
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface(`polaris_bootflash_read',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    read_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    read_lnk_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    list_dirs_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
)

#####################################################
## <summary>
##    Manage bootflash files
## </summary>
## <param name="domain">
##    <summary>
##    Domain allowed access.
##    </summary>
## </param>
#
interface(`polaris_bootflash_manage',
    gen_require(
        type polaris_disk_bootflash_t;
    )
    manage_files_pattern($1, polaris_disk_bootflash_t, polaris_disk_bootflash_t)
    manage_lnk_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.
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
## <param name="private type">
## The type of the object to be created.
## </summary>
## </param>
## <param name="object">
## The object class of the object being created.
## </summary>
## </param>
## <param name="name" optional="true">
## The name of the object being created.
## </summary>
## </param>
#
# interface('polaris_bootflash_filetrans',
  gen_require(
    type polaris_disk_bootflash_t;
  ')
  filetrans_pattern($1, polaris_disk_bootflash_t, $2, $3, $4)
')

###############################
## Manage bootflash files
## </summary>
## <param name="domain">
## Domain allowed access.
## </summary>
## </param>
# interface('polaris_harddisk_manage',
  gen_require(
    type polaris_disk_harddisk_t;
  ')
  manage_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
  manage_lnk_files_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
  manage_dirs_pattern($1, polaris_disk_harddisk_t, polaris_disk_harddisk_t)
Create an object in the polaris_disk_harddisk_t directories, with a private type using a type transition.

## <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_harddisk_filetrans',
gen_require('type polaris_disk_harddisk_t;')
')

filetrans_pattern($1, polaris_disk_harddisk_t, $2, $3, $4)
')
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)
    )
)
### Write/read polaris_disk_license_t files/directories

```c
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;
`)
```

### Read polaris_disk_license_t files/directories

```c
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.

```c```

```bash```

```c```

```bash```

```c```

```bash```

```c```

```bash```

```c```

```bash```

```c```

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```bash```

```c```

```bash```

```c```

```bash```
interface('polaris_getattr_removable',
  gen_require(
    type removable_t;
  )
)
allow $1 removable_t:filesystem getattr;
allow $1 removable_t:dir getattr;
)

#############################
## <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_lnk_files_pattern($1, removable_t, removable_t)
')

#############################
interface(`polaris_getattr_filesystem_disk_ucode',`
gen_require(`
type polaris_disk_ucode_t;
')

allow $1 polaris_disk_ucode_t:filesystem getattrib;
')

interface(`polaris_getattr_bootflash',`
gen_require(`
type polaris_disk_bootflash_t;
')

allow $1 polaris_disk_bootflash_t:filesystem getattrib;
')

interface(`polaris_getattr_hddisk',`
gen_require(`
type polaris_disk_hddisk_t;
')

allow $1 polaris_disk_hddisk_t:filesystem getattrib;
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>
##     Create an object in the polaris_disk_crashinfo_t directories,
## with a private type using a type transition.
## <summary>
## Domain allowed access.
## </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_crashinfo_filetrans',
#     gen_require(
#         type polaris_disk_crashinfo_t;
#     ')
#
#     filetrans_pattern($1, polaris_disk_crashinfo_t, $2, $3, $4)
# )

# interface('polaris_getattr_disk_config',
#     gen_require(
#         type polaris_disk_config_t;
#     ')
#
#     getattr_files_pattern($1, polaris_disk_config_t, polaris_disk_config_t)
#     getattr_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)
')

### <summary>
### Manage bootflash files mmap
### </summary>
### <param name="domain">
### Domain allowed access.
### </param>
### <param name="object">
# interface(`polaris_bootflash_files_mmap',
gen_require(`
type polaris_disk_bootflash_t;
')
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
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#
# March 2017, Victor Kamensky
#
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#
## <summary>Polaris plg Policy Rules.</summary>

Found in path(s):
  * /opt/cola/permits/1103963160_1615183271.1/0/selinux-tar/selinux/polarisplogd.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>
### <rolecap/>
#
interface('polaris_hman_use_fifo',
    gen_require(
        type polaris_hm_t;
    ')
)
write_fifo_files_pattern($1, polaris_hm_t, polaris_hm_t)
')

########################################
### <summary>
### Read tmp files created by hman. I.e /tmp/myhostname.
### </summary>
### <param name="domain">
### <summary>
### Domain allowed access.
### </summary>
### </param>
### <rolecap/>
#
interface('polaris_hm_tmp_read',
    gen_require(
        type polaris_hm_tmp_t;
    ')
)
read_files_pattern($1, polaris_hm_tmp_t, polaris_hm_tmp_t)
')

########################################
### <summary>
### Execute pkg_summary.sh in its own domain
### </summary>
### <param name="domain">
### <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>
## <rolecap/>
#
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_tmp_t;
    )
    read_files_pattern($1, polaris_show_provision_tmp_t, polaris_show_provision_tmp_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_lnk_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_monhifo_tmp_read(polaris_psvp_t)
polaris_llddb_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;

type attribute polaris_crft_data_t polaris_crft_data_domain;

  # Start of mcp_crft_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;

# 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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#
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#
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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_tlldb_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_tamlib_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=

Open Source Used In Cat9K 17.7.1 9830
# ps needs access to proc_t
kernel_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.
# 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 SPKG_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 softlink 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 ln deletes the file associated with the path name if this path name is the last link to the file.
# 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/polarisccedgestart.te

---

1.780 python-pyopenssl 19.0.0 r0
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1.781 curl 7.61.1-17.el8

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1.782 libverto 0.3.0 5.el8

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```c
; 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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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d ([[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d ([[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d ([[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d ([[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d ([[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d ([[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d ([[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d ([[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, ([[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, ([[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, ([[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, ([[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, ([[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, ([[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, ([[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, ([[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) { 
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

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<td>clang-tidy/cert</td>
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<td>jsoncpp</td>
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<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
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<tr>
<td>pyyaml tests</td>
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<td>ARM contributions</td>
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<tr>
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<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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<td>ObjectContainerBSDArchive.cpp</td>
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<tr>
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

    while.body.lr.ph: ; preds = %entry
    br label %while.body

    while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]
sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ 
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu=""hexagonv55"" }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we don't end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
    ; CHECK-LABEL: TestSelect:
    ; CHECK movaps 16(%rsp), %xmm1
    ; CHECK-NEXT callq __subtf3
    ; CHECK-NEXT testl %ebx, %ebx
    ; CHECK-NEXT jg .LBB0_2
    ; CHECK-NEXT # %bb.1:
    ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
    ; CHECK-NEXT .LBB0_2:
    ; CHECK-NEXT addq $32, %rsp
    ; CHECK-NEXT popq %rbx
    ; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
    ; CHECK-LABEL: TestFabs:
    ; CHECK andps .LCPI1_0(%rip), %xmm0
    ; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
    ; CHECK-LABEL: TestCopysign:
    ; CHECK andps .LCPI2_1(%rip), %xmm0

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0x00000000000000008000000000000000, %mul
  ret fp128 %res
}

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NR  START  END  SECTORS  SIZE  NAME  UUID
1  32  7679  7648  3.7M  8f8378c0-01
2  7680  16383  8704  4.3M  8f8378c0-02
5  7936  12799  4864  2.4M
6  12544  16127  3584  1.8M

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1.797 python-zipp 0.6.0 r0

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offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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(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 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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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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1.799 python-networkx 2.2 r0

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1.801 keyutils 1.6 r0

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